

# ROYAL ENFIELD OWNER'S MANUAL

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***SHOTGUN 650***

**UK ENGLISH**



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## FOREWORD

Congratulations and welcome to the Royal Enfield family.

As the manufacturer of the world's oldest motorcycle in continuous production, Royal Enfield has long been a canvas for customisation and personalisation for millions of riders across the world. The Shotgun 650 is our ode to the spirit of generations of riders who have challenged conventions and broken boundaries.

This custom-inspired roadster challenges every notion of what a Royal Enfield should be, while retaining everything that makes our machines a lesson in Pure Motorcycling. With a proven 648cc parallel twin engine and custom-inspired modular design, the Shotgun 650 is a motorcycle made for inspiration, experimentation and pure, unadulterated expression. Its low-slung riding dynamics and optimum ergonomics make it perfect for hustling down the highway and zipping through the city, so you can take your piece of art anywhere you want to go.

This manual is your friend, philosopher, and guide when it comes to taking care of your motorcycle. In the pages that follow, you will find ways of looking after your machine so that it remains a reliable partner in your travels and exploration for decades to come.

Please avail all scheduled services at your nearest Royal Enfield Authorised Service Centre, ensuring your ride gets the best care always. Do read through the terms and conditions of warranty and other useful information given in this manual before you ride.

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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 differences between the information provided in this manual and information related to your motorcycle.

Always consult an authorized Royal Enfield dealer for the latest specifications, features etc. 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 a motorcycle 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. Accessories and features may not be part of standard equipment. Technical specifications are subject to change without prior notice at the sole discretion of Royal Enfield.

Please take care while disassembling and assembling the seats, and sheet metal parts, as any sharp edges will lead to injuries.

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To avail further details on the products Repair and Maintenance Informations at <https://serviceinfo.royalenfield.com> through a paid subscription.

### DISCLAIMER

1. Do not polish matt finished paint surface in your motorcycle as it will increase the gloss level.
2. Wash the painted parts only with plain water and do not use any strong solvents cleaning agents or detergents.
3. Scratches, if happens on the matt finish parts cannot be touched up and corrected / removed.
4. Warranty is not applicable for any matt finished painted parts of the motorcycle.

### NOTE

■ This motorcycle meets the Euro V emission norms. Part No. RAM00628/A / 16th August 2024 /



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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 better understanding.

## PERSONAL AND MOTORCYCLE INFORMATION

|                   |         |  |  |  |  |  |  |             |  |  |  |  |  |
|-------------------|---------|--|--|--|--|--|--|-------------|--|--|--|--|--|
| Name              |         |  |  |  |  |  |  |             |  |  |  |  |  |
| Door No. / Street |         |  |  |  |  |  |  |             |  |  |  |  |  |
| Locality / Town   |         |  |  |  |  |  |  |             |  |  |  |  |  |
| City              |         |  |  |  |  |  |  | Country     |  |  |  |  |  |
| Contact No.       | 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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## SAFE RIDING TIPS / GUIDELINES

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- Before operating your new motorcycle, we request you to carefully read and follow the operating and maintenance instructions detailed in this manual for the safety of your own, your motorcycle and also that of others.
- Know and adhere to the rules of the road with respect to your driving country.
- Before starting the motorcycle, check for proper operation of brakes, clutch, gear shifter, handle bar controls, tyre pressures, fuel and oil levels, etc.
- Use only genuine Royal Enfield spare parts and approved accessories. Use of other manufacturer's parts may affect the performance of your motorcycle and render the motorcycle void of warranty. Visit your Royal Enfield Authorised Service Centre for details.
- Whenever refueling your motorcycle, please exercise utmost caution and carefully observe the following guidelines.
  - ★ Switch "OFF" mobile phones and other hand held electronic devices.
  - ★ Do not smoke and please ensure that there are no open flames or sparks near the motorcycle, when refueling or servicing the fuel system.
  - ★ Refuel in a well ventilated area with the engine turned off condition.
  - ★ Open the fuel tank cap slowly.
  - ★ Do not fill the fuel in tank to its brim. Please fill fuel till the bottom of anti splash plate, so as to leave sufficient air space in the fuel tank to allow for fuel expansion.

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## SAFE RIDING TIPS / GUIDELINES

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### WARNING

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Royal Enfield cautions you against the use of certain non-standard 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 accident.

- A new motorcycle must be operated according to the special running-in-procedure. See running-in-procedure mentioned in respective section.
- 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 ride too fast for existing conditions. Always reduce speed when poor riding 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 motorcycle. New riders should gain experience under various conditions while driving at moderate speeds. Pay strict attention to road surfaces and wind conditions. Any motorcycle may be subject to the following up-setting forces:

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

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## SAFE RIDING TIPS / GUIDELINES

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These forces may affect the handling characteristics of your motorcycle. If this happens, reduce speed of the motorcycle to a controlled condition. Do not apply brake abruptly.

- Operate your motorcycle defensively. Remember that a motorcycle does not afford the same protection as an automobile in an accident. One of the most common accident situations occurs when the rider / driver of the other motorcycle / vehicle fails to see or recognise a motorcycle and turns into the oncoming motorcyclist.
- Wear an approved helmet, clothing and footwear suited for riding a motorcycle. Bright / light colours 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 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.



### WARNING

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- Regularly inspect shock absorbers and front forks and look for leaks. Replace worn out parts. Worn out parts can adversely affect stability and handling.
- Exhaust gas contains poisonous carbon monoxide and chemicals, known to cause cancer, birth defects or other reproductive defects, durability / longevity operation of your motorcycle.
- 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/durability/longevity operation of your motorcycle.

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## SAFE RIDING TIPS / GUIDELINES

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- Avoid any contact with the exhaust system when hot. 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 to touch, even after the engine is turned OFF. Failure to wear proper or protective clothing could result in serious injury.
- Motorcycle batteries contain lead, 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.
- Consult your Royal Enfield Authorised Service Centre 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 and jeopardize your personal safety.
- Do not tow a motorcycle. The steering and handling of the towed motorcycle will be impaired due to the force of the towline. If a motorcycle must be transported, use a truck or a trailer.
- Do not pull a trailer behind a motorcycle. Towing a trailer may cause reduced braking efficiency, tyre overloading and unstable handling, as it may cause loss of control of the motorcycle in the front, leading to an accident.

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## RULES OF THE ROAD

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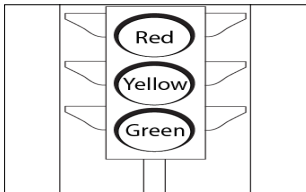
- Be sure your number plate is installed in the position specified by law and it is clearly visible at all times.
- Ride at a safe speed that is consistent with the type of road surface you are on. Pay strict attention while riding on the following surfaces:
  - ★ Dusty
  - ★ Oily
  - ★ Icy
  - ★ Wet
  - ★ Sand
- Watch for loose debris, such as leaves, slippery substances or gravel that can hamper the stability of your motorcycle.
- Keep to the correct side of the road center line, when meeting oncoming vehicles.
- 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 motorcycle on your left or right. Do not presume you have the right-of-way.
- Adhere to the rules of the road with respect to your country when preparing to stop, turn or pass. While turning either right or left, watch for pedestrians, animals, as well as other vehicles.
- All traffic signs, including manual controls at intersections, should be obeyed promptly. Slow down at traffic signs near schools and caution signs at rail road crossings.
- When intending to turn, signal at least 100 feet (30.5 m) 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.



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## RULES OF THE ROAD

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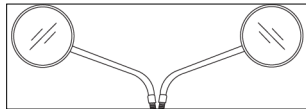
- Do not leave the curb or parking area without signaling. Be sure your way is clear to enter moving traffic. A moving line of traffic always has the right-of-way.
- When parking the motorcycle, park on a firm and flat surface to prevent it from falling over.
- Protect your motorcycle against theft. After parking your motorcycle, ensure that the steering head is locked and then remove the ignition key.

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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 of the rear than a normal flat mirror. However, vehicles 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 vehicles / objects seen in these mirrors. Use the tool available in tool kit to loosen and adjust the side mirrors.

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### NOTE

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To establish the relative distance of vehicles / objects behind your motorcycle through the mirrors, 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 with reference to your riding posture.

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## ACCESSORIES AND LUGGAGE

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Royal Enfield offers a range of Genuine Motorcycle Accessories that have been fully approved and extensively tested alongside the motorcycle.

Therefore, the rider must be responsible for safe operation of the motorcycle when installing accessories or carrying additional weight.

Please adhere to the following guidelines when carrying a pillion, luggage or when fitting any accessories.

- Do not exceed 110 km/h (68.3 mph) when riding solo, carrying a pillion or payload on an accessory equipped motorcycle.
- Keep luggage weight concentrated close to the motorcycle and as low as possible; this minimizes sudden shift in the motorcycle's center of gravity.
- Distribute weight evenly on both sides of the motorcycle.
- Do not load bulky items behind the rider or add weight to the handlebars or front forks.
- Re-check the luggage periodically to ensure it is secured and will not shift while riding. Accessories mounted loosely may affect the riding of the motorcycle and affect the handling and stability of the motorcycle.
- Large surfaces such as fairings, windshields, backrests and luggage racks can adversely affect handling of the motorcycle. Use only Royal Enfield genuine motorcycle accessories which are model specific and follow installation procedure.

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## ACCESSORIES AND LUGGAGE

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### WARNING

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- Do not load weight or install accessories incorrectly on the motorcycle. Doing so may affect the motorcycle's stability, handling characteristics and safe operation and could result in an accident causing serious injury or loss of life.
- Royal Enfield offers a range of Genuine Motorcycle Accessories that have been fully approved and extensively tested alongside the motorcycle.
- 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 or loss of life.

- Do not ignore model / design specifications. Doing so constitutes both motorcycle and accessories misuse which may adversely affect the handling and performance of the motorcycle causing an accident, which could result in serious injury or loss of life.

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### LUGGAGE CATEGORIES (IF FITTED)

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- The maximum permissible weight of the top box (Royal Enfield Genuine motorcycle Accessory) is 3 kg. Do not exceed this weight limit.

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## TECHNICAL SPECIFICATIONS

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### ENGINE

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|                          |                                      |
|--------------------------|--------------------------------------|
| Engine type .....        | Inline twin cylinder, 4 stroke, SOHC |
| Bore .....               | 78 mm                                |
| Stroke .....             | 67.8 mm                              |
| Swept volume .....       | 647.95 cc                            |
| Compression ratio .....  | 9.5:1                                |
| Max power .....          | 34.6 kW @ 7250 rpm                   |
| Max torque .....         | 52.3 Nm @ 5650 rpm                   |
| Idle RPM .....           | 1200 ± 100 rpm                       |
| Starting .....           | Electric start                       |
| Air filter element ..... | Paper element                        |

|                   |  |
|-------------------|--|
| Lubrication ..... | Forced lubrication, Wet sump with pump driven oil delivery |
| Fuel supply ..... | Fuel injection   |
| Cooling .....     | Air cooling  |

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### IGNITION SYSTEM

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|                         |                        |
|-------------------------|------------------------|
| Ignition .....          | Digital spark ignition |
| Ignition advanced ..... | 11.25° BTDC            |
| Spark plug .....        | BOSCH UR5CC            |
| Spark plug gap .....    | 0.7 mm to 0.8 mm       |

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# TECHNICAL SPECIFICATIONS

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## TRANSMISSION

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|                       |                                 |
|-----------------------|---------------------------------|
| Clutch .....          | Wet multi plate                 |
| Primary drive .....   | Gear                            |
| Primary ratio.....    | 2.05:1                          |
| Gear box .....        | 6 Speed constant mesh           |
| Gear ratio.....       | 1 <sup>st</sup> 2.615 :1        |
|                       | 2 <sup>nd</sup> 1.813:1         |
|                       | 3 <sup>rd</sup> 1.429:1         |
|                       | 4 <sup>th</sup> 1.190:1         |
|                       | 5 <sup>th</sup> 1.040:1         |
|                       | 6 <sup>th</sup> 0.962:1         |
| Secondary drive.....  | Sprockets and chain (5/8 Pitch) |
| Secondary ratio ..... | 2.667:1                         |

## CHASSIS

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Frame..... Steel tubular spine frame

### Suspension

Front..... Upside down telescopic fork

Rear ..... Twin shock

### Brakes

Front disc..... Single 320 mm disc, twin piston floating caliper

Rear disc ..... Single 300 mm disc, twin piston floating caliper

ABS ..... Dual channel

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## TECHNICAL SPECIFICATIONS

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| Type of wheel       | Standard Type                               |
|---------------------|---|
| Front (Alloy wheel) | 100/90-18 M/C 56H CEAT ZOOM CRUZ Z F TL     |
| Rear (Alloy wheel)  | 150/70 R17 M/C 69H CEAT ZOOM RAD STEEL Z TL |

| Type of wheel | Solo   | With pillion |
|---------------|--------|--------------|
| Front         | 32 psi | 32 psi       |
| Rear          | 36 psi | 42 psi       |

Steering lock..... Ignition barrel (33 deg)

Fuel type..... E5/E10 Unleaded gasoline

Induction ..... Fuel injected

Fuel tank capacity..... 13.8\* L, Use able (11.9 L)

Low fuel warning..... 3.8\* L, Use able (2.1 L)

Dead stock..... 1.7 L

\* The above values are approximate and the actual fuel filling capacity will vary from the values mentioned.

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## TECHNICAL SPECIFICATIONS

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### ELECTRICALS

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|                          |  |
|--------------------------|--|
| System.....              | 12V - DC   |
| Generation.....          | Alternator   |
| Alternator output .....  | 156 W @ 1100 rpm   |
| Battery.....             | 12V - 12 Ah VRLA   |
| Head lamp .....          | FPL 1.55 W LED, low beam<br>12.12 W, high beam + low beam<br>14.22 W |
| Brake lamp .....         | 4.5 W, LED   |
| Tail lamp .....          | 2.5 W, LED   |
| Turn signal .....        | 12 V, 10 W   |
| Instrument cluster ..... | Digital display with analog<br>speedometer                           |

Horn..... 430 Hz high tone

Starter motor..... 12V, 0.8 kW

Charger port. .... USB 2.0 Type A - 5 V, 2 A output



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### WARNING

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Using bulbs/electrical gadgets other than specified rating will lead to overloading/erratic behavior/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.

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# TECHNICAL SPECIFICATIONS

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## DIMENSIONS

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|                            |                           |
|----------------------------|---------------------------|
| Rake/Head angle .....      | 27.57 degrees             |
| Front wheel rim size ..... | MT 2.5 × 18               |
| Rear wheel rim size .....  | MT 4.25 × 17              |
| Length .....               | 2220 mm                   |
| Width.....                 | 820 mm                    |
| Width.....                 | 835 mm (Bar end mounting) |
| Height.....                | 1105 mm                   |
| Wheel base .....           | 1465 mm                   |
| Ground clearance .....     | 141 mm                    |

## WEIGHTS

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|                                      |        |
|--------------------------------------|--------|
| Kerb weight (90% fuel and oil) ..... | 240 kg |
| Gross vehicle weight .....           | 428 kg |

## NOTE

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- Values / Dimensions given above are for your guidance only.
- In view of continuous improvements being done on our products, the specifications are likely to change without prior notice.



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## RECOMMENDED LUBRICANTS

---

| ENGINE OIL |  |               | FRONT FORK OIL   | BRAKE FLUID  |
|------------|--|---------------|--|--|
| Grade      | 10W-50 to API SL (or higher) JASO MA2, such as ELF MOTO4 TECH 10W 50 (Fully synthetic) |               | SS-47G   | DOT 4*   |
| Capacity   | 1 <sup>st</sup> dry fill: 3.9 L  | Refill: 3.1 L | RH fork: 544 ml (Approx.)<br>LH fork: 555 ml (Approx.) | Front : 50 ml (Approx.)<br>Rear : 100 ml (Approx.) |

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### CAUTION

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Use of wrong oil grade will reduce the life of the moving parts and seriously affect performance.

\* Do not mix DOT 4 or other brake fluid together.

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### NOTE

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1. Recommendation subject to change without notice.
2. The above values are approximate and the actual capacity will vary.

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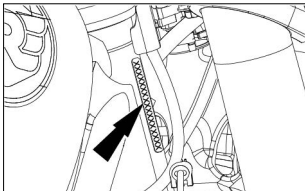
# MOTORCYCLE IDENTIFICATION NUMBERS

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## FRAME NUMBER

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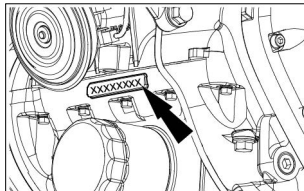
The VIN is a 17 digit number punched on the right side steering head tube in the form of label.



## ENGINE NUMBER

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The engine number is a 8 digit punched above the oil filter location.



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## CAUTION

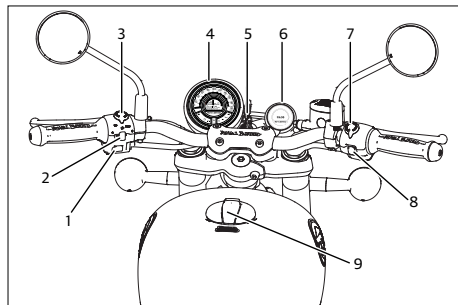
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It is illegal to tamper with or alter the VIN/Engine numbers of the motorcycle as it will not only against the law but will render the vehicle registration and warranty void.

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## LOCATION OF KEY PARTS

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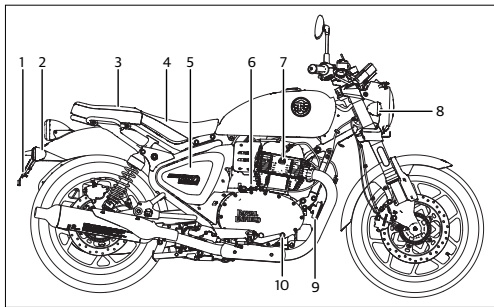


1. Horn switch
2. Turn signal switch
3. High/Low beam/Flashing switch
4. Instrument cluster
5. Ignition key
6. Tripper (If fitted)
7. Ignition/Engine kill switch
8. Hazard switch
9. Fuel tank cap

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## LOCATION OF KEY PARTS

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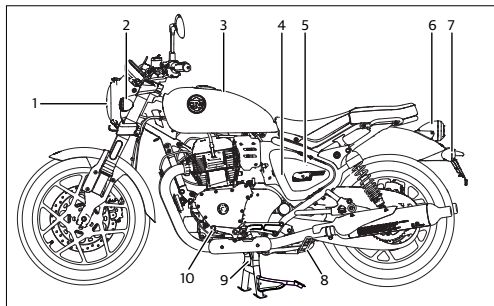


- 1. License plate illuminator
- 2. Right trafficator rear
- 3. Pillion seat
- 4. Rider seat
- 5. Right side panel
- 6. Starter motor
- 7. Spark plug
- 8. Right trafficator front
- 9. Horn
- 10. Brake pedal

---

## LOCATION OF KEY PARTS

---



1. Head lamp
2. Left trafficator front
3. Fuel tank
4. USB charger port (Inside panel)
5. Left side panel
6. Tail lamp
7. Left trafficator rear
8. Side stand
9. Center stand
10. Gear change pedal

# OPERATION OF CONTROLS

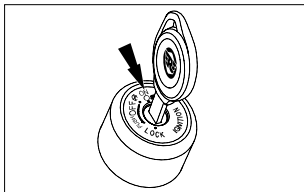
## IGNITION KEY



"OFF"



"ON"



## NOTE

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

- Key is common for ignition, petrol tank lock, pillion seat, steering lock and left side panel.
- Key can be removed from fuel tank, pillion seat and left side panel only in locked position from the key slots.



## 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.

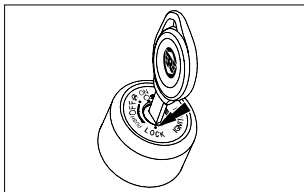
## STEERING LOCK

- Turn the handle bar to extreme left position.
- Push the key inside at OFF position, press and further turn to anticlockwise direction to lock the steering system.
- Turn the key in the clockwise direction to unlock the steering.

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## OPERATION OF CONTROLS

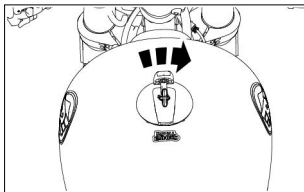
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### FUEL TANK CAP

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- Lift key flap on fuel tank cap and insert key.

- Turn key clockwise to open.
- Press cap to lock with key in position.
- Remove key from cap and close flap.



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### WARNING

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- Do not overfill the fuel tank.
- Fill fuel only till the bottom of anti splash plate.
- Over filling may result in gasoline entering the EVAP canister and may damage the evaporative emission system.

---

### CAUTION

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- Gasoline vapour is highly explosive. Please ensure there are no open flames or sparks nearby while refuelling and fill fuel only in a well ventilated area.
- Please ensure gasoline does not spill on painted surfaces. In case fuel spills over the painted surfaces wipe it off immediately as it may leave a permanent stain.
- Do not smoke while refuelling or when fuel tank cap is open.

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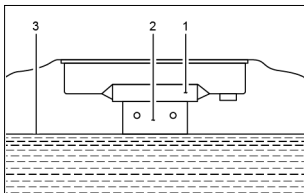
# OPERATION OF CONTROLS

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## FUEL FILLING LEVEL

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1. Fuel filler collar
2. Anti splash plate
3. Maximum fuel level



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## IGNITION/ENGINE KILL SWITCH

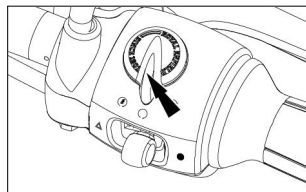
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"OFF"



"ON"



---

## CAUTION

---

- In case of prolonged stoppage of vehicle, please turn off ignition key to avoid discharge of battery.

---

## E-START SWITCH

---



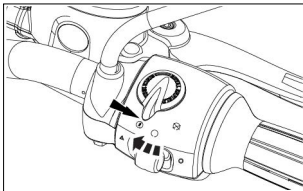
Push and hold electric start switch until engine starts for a maximum of 5 seconds.



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## OPERATION OF CONTROLS

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---

### HAZARD LIGHT SWITCH

---

▲ "ON"

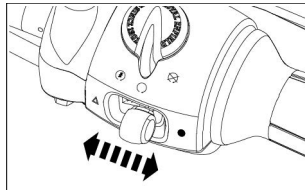
● "OFF"

---

### CAUTION

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- Hazard flashing will create a strain on battery. Do not use hazard warning for longer period unless necessary.



Methods to activate hazard flasher:

- Ignition switch ON, slide the hazard control to ON position. Hazard will work unless manual deactivation (OFF).
- Ignition switch ON, slide the hazard control to ON position-Hazard will start working - Ignition switch OFF
  - Hazard will keep working for a duration of 30 minutes
  - Unless manual deactivation (OFF).

# OPERATION OF CONTROLS



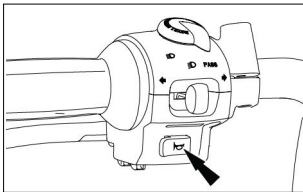
## WARNING

- Turn signals do not work when the hazard light switch is "ON".
- All the trafficator lamps will flash simultaneously.

## HORN

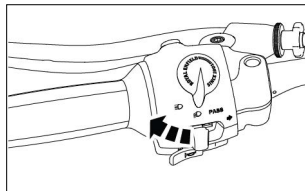


Press the horn button to sound horn.



## HIGH BEAM/LOW BEAM SWITCH

- When the headlamp is in "ON" condition High / Low beam will be selected by toggling the switch. High beam indicator tell tale located in instrument cluster will glow when high beam is selected.



High beam



Low beam

---

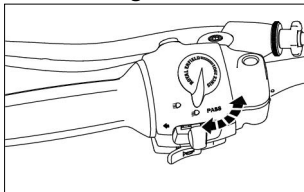
# OPERATION OF CONTROLS

---

## FLASH SWITCH

---

Press the switch for flashing switch.

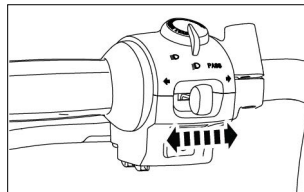


---

## TURN SIGNAL SWITCH

---

- ⇐ Left turn signal "ON"
- ↑ "OFF" (Push to cancel)
- ⇒ Right turn signal "ON"



Push the button from OFF position to either left or right before turning as needed. To cancel the turn signal lights, push the switch in after it has returned to the center position.

---

## SIDE PANEL LEFT

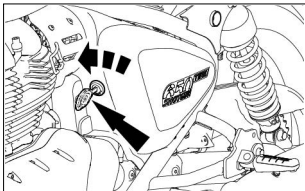
---

- Turn key anticlockwise to unlock the left side panel.
- Gently open the left side panel.

---

## OPERATION OF CONTROLS

---

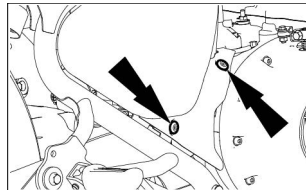


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### SIDE PANEL RIGHT

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- To access the right side panel loosen and remove the 2 button head screws by using 5 mm Allen key available in the tool kit and then remove the reservoir panel.
- Pull and disengage the side panel from locator and gently remove the side panel.

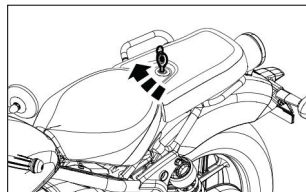


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### PILLION AND RIDER SEAT DISMANTLING

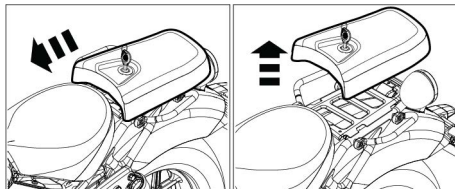
---

- Insert the key and turn clockwise.

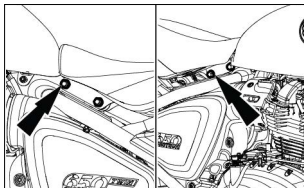


## OPERATION OF CONTROLS

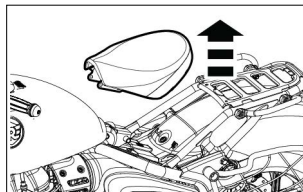
- Slide the seat front forward to remove the seat with the key in position.



- Remove the bottom two bolts and retaining nuts by using 14 mm socket and ratchet.



- Lift the rear of the seat and slide it backwards to remove rider seat.



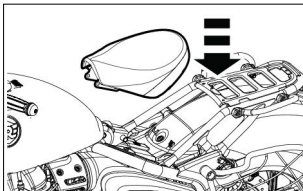
### NOTE

Place the removed seat in a safe location to prevent from scratches and dirt.

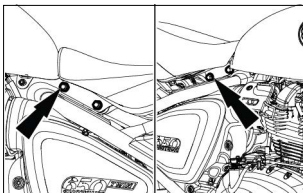
### PILLION AND RIDER SEAT ASSEMBLY

- Ensure mounting holes of the rider seat are aligned with frame.

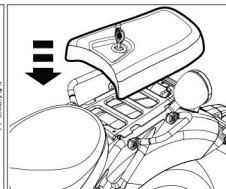
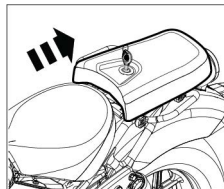
## OPERATION OF CONTROLS



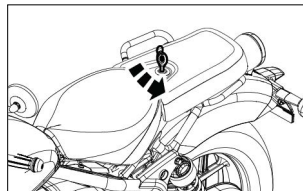
- Insert the bottom two bolts and retaining nuts and tighten to 45 Nm.



- Place the pillion seat and slide it backwards to locate it.



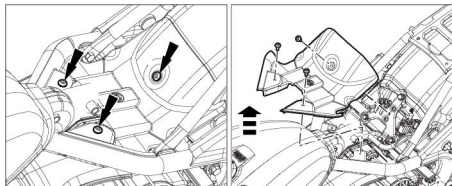
- Turn the key anti clockwise direction to lock the pillion seat and remove the key.



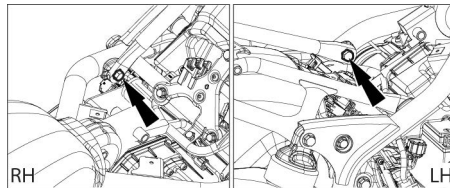
# OPERATION OF CONTROLS

## SUBFRAME DISMANTLING

- Remove the pillion and rider seats as per recommended procedure.
- Loosen and remove the three button head bolts from upper infill panel by using 5 mm Allen key available in the tool kit.
- Gently remove the upper infill panel.

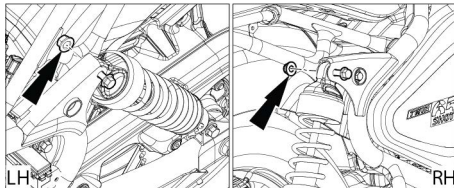


- Loosen and remove the hex head bolt from inside the end of each of the subframe rails by using a 14 mm socket with ratchet.

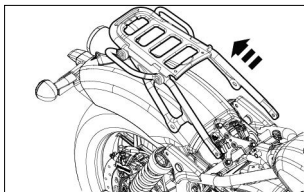


- Using a 14 mm socket with ratchet, remove the retaining nut and partially remove the hex head bolt from the LH and RH shock absorber upper mounting, holding the shock absorbers in place while allowing the subframe to slide free from its mounting.

## OPERATION OF CONTROLS



- Gently remove the subframe from chassis assembly.

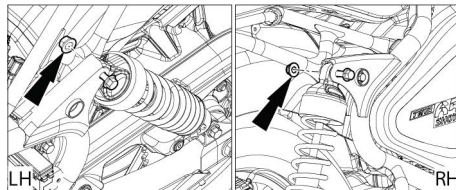


### CAUTION

While removing the subframe from chassis it may be damaged the tail light and rear mudguard scratches. To prevent this place the cloth in between the subframe and tail light.

### RIDER SEAT ASSEMBLY WITHOUT SUBFRAME

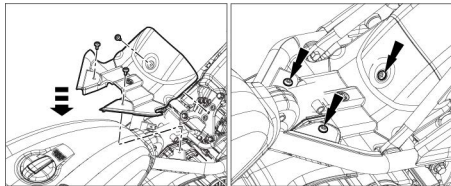
- Relocate the two hex head bolts and retaining nuts into the LH and RH shock absorber upper mounting and tighten to 50 Nm.



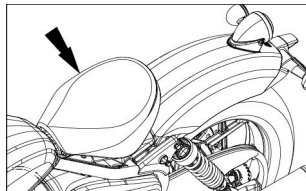
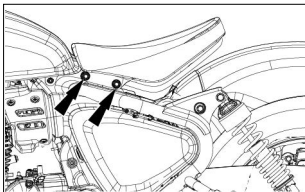
- Replace the upper infill panel into the frame and tighten the three button head bolts to 8 Nm.



## OPERATION OF CONTROLS



- Ensure mounting holes of the rider seat are aligned with frame. Insert the two mounting bolts and retaining nuts and tighten to 45 Nm.



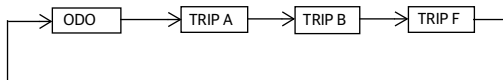
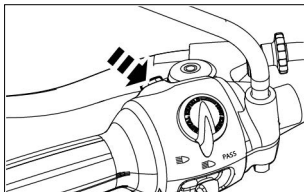
### NOTE

For further assistance you may visit to nearest Authorised Royal Enfield Service Centre.

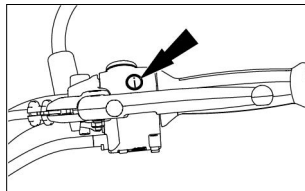
# OPERATION OF CONTROLS

## INFOBUTTON MANAGEMENT DETAILS

- LCD SEQUENCE (Info switch press <1 second):-  
If Trip F enabled.



- If Trip F not enabled.

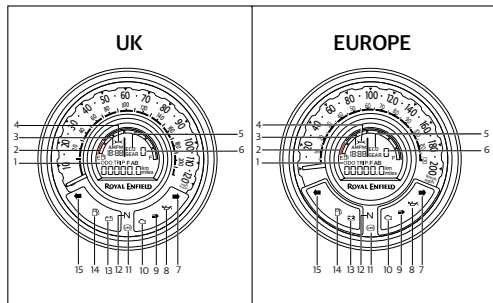


## NOTE

- For trip re-set press info button for  $T > 3$  second.

# OPERATION OF CONTROLS

## INSTRUMENT CLUSTER



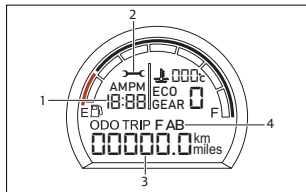
1. ODO meter / Trip meter (A/B/F)
2. Fuel gauge
3. Clock
4. Service reminder
5. ECO mode
6. Gear indicator
7. Right turn indicator
8. Low oil pressure indicator
9. High beam Indicator
10. Engine malfunction indicator
11. ABS Indicator
12. Neutral indicator
13. Battery low voltage indicator
14. Low fuel indicator
15. Left turn signal indicator

## DISCLAIMER

- Cluster unit display may look dull during sun overhead conditions this is normal and due to impact of direct sunlight on the cluster unit.

# OPERATION OF CONTROLS

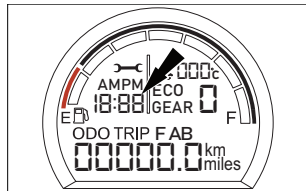
## MAIN LCD



1. Clock
2. Service reminder
3. Odometer
4. Trip value (A/B & F)

## CLOCK

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



## ECO MODE

- The ECO indicator on the instrument cluster will appear when the motorcycle is ridden at the optimum engine speed and gear ratio. It may also consider the road condition and payload.



## OPERATION OF CONTROLS

| Function           | Switch | Pressure time (s)                                    | Action   |
|--------------------|--------|--|--|
| Clock setting mode | INFO   | Press and hold INFO switch for 3 seconds             | In ignition ON and current display in ODO mode and no speed input (safety), press info button for specified time to enter into clock setting mode (hours will blink) |
|                    | INFO   | Press and release INFO switch                        | Hours in the clock will increase   |
|                    | INFO   | Press and hold INFO switch for 3 seconds and release | Enter into minutes mode (minutes to blink)   |
|                    | INFO   | Press and release INFO switch                        | Minutes in the clock will increase   |
|                    | INFO   | Press and hold INFO switch for 3 seconds and release | Enter into unit mode (AM / PM will blink)  |
|                    | INFO   | Press and release INFO switch                        | Toggle between AM or PM  |
|                    | INFO   | Press and hold INFO switch for 3 seconds and release | Save data and exit clock setting mode  |

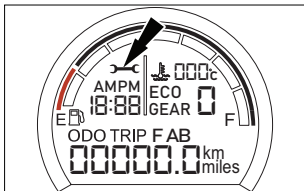
### NOTE

- In case no action is observed between clock setting function for more than 20 seconds last shown value to be displayed.

# OPERATION OF CONTROLS

## SERVICE REMINDER

- In case of service reminder symbol is ON. Please plan for scheduled service at an authorised service center.

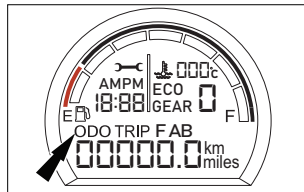


- Service reminder can be reset only by authorised personnel at service centre after service is completed.
- Service reminder symbol will flash on as per below distance input from odometer.

- 1<sup>st</sup> service - 450 km or 279.6 miles
- 2<sup>nd</sup> service - 7,400 km or 4598.1 miles
- From there on for every 7,500 km or 4660.2 miles from previous value (ex: 14,900 km or 9258.4 miles, 22,400 km or 13918.7 miles etc.)

## ODOMETER

- Displays the cumulative kilometers the vehicle has covered.



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## OPERATION OF CONTROLS

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| Function | Switch | Pressure time (s)                                    | Action  |
|----------|--------|--|---|
| ODO      | INFO   | Press and release INFO switch                        | Turning ignition key "ON" displays ODO km in cluster and enter into Trip A mode |
| TRIP A   | INFO   | Press and release INFO switch                        | Trip A display mode and enter into Trip B mode                                  |
|          | INFO   | Press and hold INFO switch for 3 seconds and release | Reset Trip A km value   |
| TRIP B   | INFO   | Press and release INFO switch                        | Trip B display mode and enter into ODO/Trip F (If enable) mode                  |
|          | INFO   | Press and hold INFO switch for 3 seconds and release | Reset Trip B km value   |

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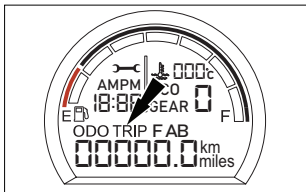
## OPERATION OF CONTROLS

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### TRIP "F" MODE

---

- Distance driven after low fuel tell tale is "ON".



- Cannot be re-set will be visible only when low fuel condition is sensed, will vanish if fuel is filled above low fuel condition.
- Display can be toggled using info button during this condition but will auto appear after 25 seconds linked with stand switch to avoid re-set when in side stand condition.

- If ridden > 200 km (124.2 miles) in Trip F condition "Low Fuel" will flash continuously on LCD. It is recommended not to ride vehicle in these condition as it will result in fuel pump damage.

---

### TRIP "F" CONDITION

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- Trip F will update only when kill switch is in ON condition.
- After fuel filling above reserve level Trip F will continue to show for few min which is a normal behavior, this is to avoid wrong indication.
- Trip F reset will occur when riding in mid to rough roads condition due to frequent fuel oscillations this features to be used for reference purpose only and on smooth road surfaces.
- Trip F will update only when side stand is removed.



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## OPERATION OF CONTROLS

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### NOTE

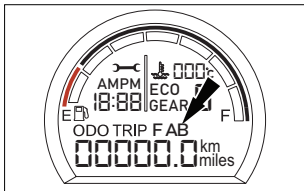
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- Fuel Indication will vary on rough road, uphill and downhill conditions, for accurate indication refer during slow speed or flat surfaces.

### TRIP A/B

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- Trip A / B indicates distance traveled in particular trip.



### WARNING

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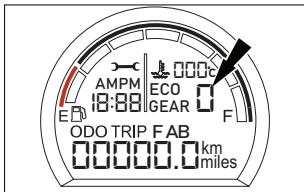
- Never attempt to operate the info buttons while riding the motorcycle. Doing so will cause loss of concentration and unstable riding, leading to a potential accident. Resulting in serious injury to both rider and other road users, besides causing severe damage to the motorcycle.

### GEAR POSITION INDICATION

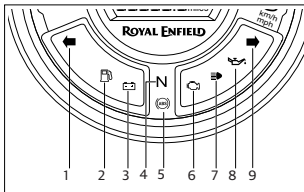
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- Displays the gear position in which the vehicle is traveling.
- When in neutral the indication will be "0".
- When in gear the appropriate number between 1 to 6 will be displayed.

## OPERATION OF CONTROLS



### TELL TALES



1. Turn left: Left turn signal "ON".
2. Low fuel Indication: Last segment blinking along with low fuel tell tale "ON" for low fuel condition.
3. Low battery indication: Indicator will glow continuously if ignition switch is "ON" & engine is 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.
4. Neutral indicator: Transmission is in neutral.
5. 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.
6. EMS malfunction indication: Will be continuously "ON" in case of EMS malfunction.
7. High beam indication: Head lamp high beam "ON".
8. Low oil pressure indicator: This indicator glows whenever the oil pressure is too low.
9. Turn right: Right turn signal "ON".

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## OPERATION OF CONTROLS

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### NOTE

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- Tell tales lights will switch "OFF" after engine is started.

### CAUTION

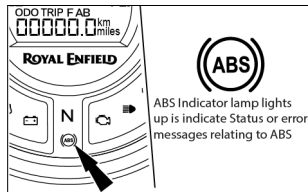
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- Do not run motorcycle in case the malfunction remains "ON" continuously as it can cause severe damage to the ECU & Sensors. Please visit the nearest authorised Royal Enfield dealer to diagnose & rectify the defect in the EMS.
- Do not run motorcycle in case the ABS indicator lamp continuously "ON".

### ABS INDICATOR LAMP

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- When the ignition and engine kill switch are switched in "ON" position the ABS sign will glow and remain "ON" till the motorcycle attains a speed of 5 km/h (3.1 mph) and turns "OFF". If light up again in case of any ABS system malfunction.



### CAUTION

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- Do not run motorcycle in case the ABS indicator lamp is "ON" continuously above 5 km/h (3.1 mph).

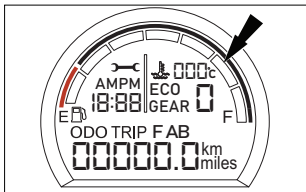
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# OPERATION OF CONTROLS

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## FUEL GAUGE

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- Digital with 7 segment bar graph.
- Last segment blinking along with low fuel tell tale "ON" for low fuel condition.



### WARNING

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- Do not use the motorcycle for long duration with the fuel indication in last segment blinking. Refuel at the earliest.
- Failure to do so will cause the motorcycle to run out of fuel and get stranded in addition to causing serious damage to the fuel pump.

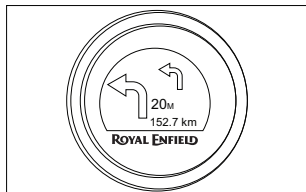
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## OPERATION OF CONTROLS (IF FITTED)

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### TRIPPER

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- Tripper is being provided to have turn by turn navigation motorcycle to help riders to have a hassle free riding without handling the smartphones. This device works based on Bluetooth connectivity with navigation search based on RE Mobile app with the support of Google Maps.
- Device is capable of showing turn by turn navigation on a custom designed round colour TFT with uniquely designed arrow font designed intuitively for ease of riding.

- Background display can be switched between day mode and night mode which can be selected by riders from RE Mobile app.
- Scan the QR Code, to download, Install, register and to know more about the tripper.

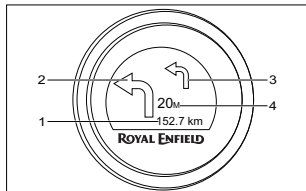


- 1.Distance to destination or ETA
- 2.Primary direction or next turn
- 3.Secondary direction or next to next turn
- 4.Distance to next turn

---

## OPERATION OF CONTROLS (IF FITTED)

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### Features:

- Turn by turn navigation with primary turn, secondary turn.
- Distance to next turn, distance to destination or Estimated Time of Arrival (ETA).
- Clock display (in case of no connectivity, no navigation input or after destination is reached).
- User can select day and night mode (through RE Mobile app only).
- Mobile phone low battery indication.

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### DISCLAIMER:

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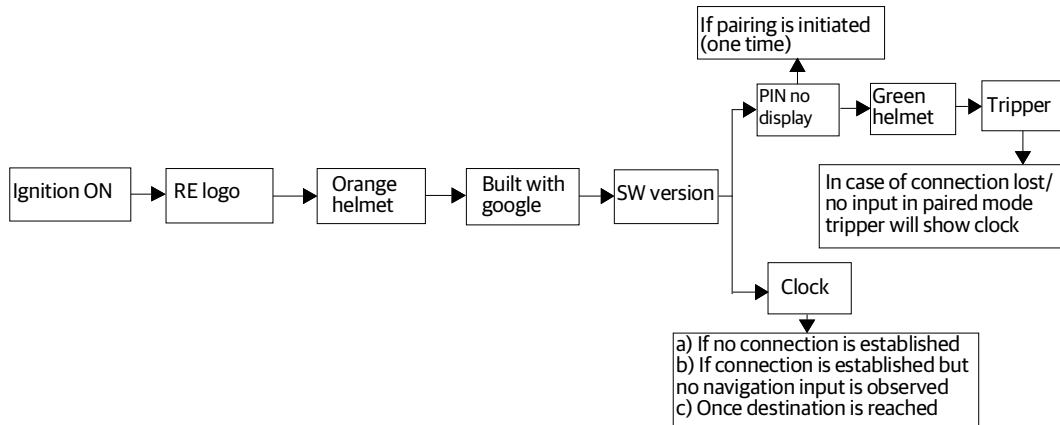
- Tripper unit display may look dull during sun overhead conditions this is normal and due to impact of direct sunlight on the unit customers to refer during other riding conditions.
- Primary direction or next turn; Indicates the next turn to be taken along with the distance.
- Distance to next turn: Shows the distance to next turn.
- Secondary direction or next to next turn: Indicates the next turn to be taken after the primary direction, will be shown only when primary turn is less than 100 m, if there is no turn the display will be blank in this region.
- Distance to destination or ETA: Shows the total distance to destination or Estimated Time of Arrival (based on used selection from RE Mobile app).

### Smartphones compatible version to use RE Mobile app:

- Compatible with Android and iOS.
- Android Support: Current version (-2).
- iOS support: Current version (-1).
- Connectivity control only through RE Mobile app.

# OPERATION OF CONTROLS (IF FITTED)

## TRIPPER- DISPLAY FLOW SEQUENCE



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## OPERATION OF CONTROLS (IF FITTED)

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### NOTE

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- After every Ignition "ON" cycle tripper will be in discoverable mode for 120 seconds.
- In case there is no connection established within 120 seconds. Display will enter into clock mode, to re initiate connection ignition "OFF-ON" cycle to be repeated.
- During navigation mode if there is no input from smart-phone for 5 seconds, Bluetooth connection will be terminated to avoid power draw and will display clock.
- Bluetooth connection can be terminated by end user also by closing the mobile application.
- For first time pairing user needs to enter the secured pin shown on tripper through RE Mobile app to setup the device, after that auto-pairing will happen if same device is connected.

- Every time the tripper is paired the clock time will sync with mobile time after which it will continue to run with internal clock even in case of disconnection, there will be time difference between time shown on instrument cluster and tripper - customer needs to update cluster clock in line with time shown on tripper as and when required as mentioned in push button management of cluster.
- Do not apply or use gasoline / petrol related fluids for cleaning or wiping on instrument cluster or tripper, as it may result in permanent damage to the same.

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### CAUTION

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- Ensure ignition is ON and display is in powered while establishing connection.
- Ensure first time pairing is done in isolated environment to avoid cross connections (one time).



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## OPERATION OF CONTROLS (IF FITTED)

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- Day and night mode is user selectable only, will not change over automatically to be selected during night driving to avoid rider distraction.
- Bluetooth connection can be established only through RE Mobile app.
- Ensure Bluetooth and location settings are turned always "ON" before usage.
- Disable battery optimization settings / low battery cut-off setting of smartphone for navigation to work in low battery mode.
- RE Mobile app works only with Android (Current Version (-2)) and iOS (Current Version (-1)) versions, for other lower versions performance lag can be expected.
- Tripper Bluetooth version is 4.2. Tripper time display may have a mismatch with actual time displayed in mobile device once the Bluetooth connectivity is lost.
- RE Mobile app works with Bluetooth version 4.2 and N+1.0, for other lower versions performance lag can be expected.
- Check for network signal strength in case of navigation lag.
- Check for data speed in case of navigation lag, navigation system performance is better in 4G band compared to other lower versions.
- Calibrate mobile phones frequently for more GPS accuracy & location accuracy is dependent on.

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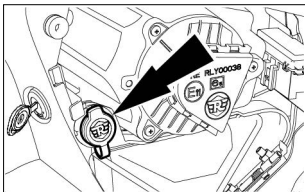
## OPERATION OF CONTROLS

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### CHARGER PORT

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- Charger port is located in the inner portion of left side panel.



### WARNING

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- Recommended not to use in rainy conditions to avoid damages to smart phones and charger, RE shall not be liable for any damage to smart phones.

- Do not use any other device other than mobile phones, only one mobile shall be charged at one point of time.
- Ensure proper insertion of USB cable, damages due to hard / wrong insertion of cable will not be entertained in warranty.
- Do not leave the USB port cap opened / closed partially to avoid any short circuit when not in use.
- Do not insert any metal or conductive materials inside USB charging port which may lead to short circuit.

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### NOTE

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- Charging port is provided only for charging purpose and no data transfer is enabled.
- Only constant charging mode is provided, fast / dash charging mode is not provided to be compatible with multiple makes mobile phones and cannot be compared with the performance of original smartphone chargers.

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## OPERATION OF CONTROLS

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- Duration of charging can be higher and will vary for different make mobile phones depending on smart phone battery capacity, SOC and smart phone charging circuits.

---

### CAUTION

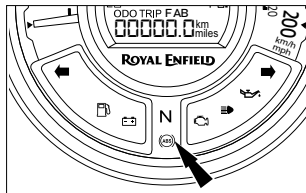
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- Customer to ensure USB port cap is closed and locked properly when not in use, warranty will not be provided if port cap is damaged and not sealed properly.
- If high current draw greater than 2.5 A is observed USB charger will shutdown please check your smart phone battery current ratings before using.
- USB charger will function only when engine is in running condition.
- Use standard approved and high quality USB cables for proper functioning.

# WARNING INDICATIONS AND SAFETY SYSTEMS

## 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 or at low friction surfaces. 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 a sudden and hard application of the brakes by the rider, the sensors in the braking system

will signal the ABS modulator 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 cluster (as shown in the adjacent image) to warn the rider in the event of any malfunction of the ABS.
- When the ignition and engine kill switch are switched in "ON" position the ABS sign will glow and remain "ON" till the motorcycle attains a speed of 5 kmph (3.1 mph) and turns "OFF". This indicates the ABS is functioning properly. If the ABS indicator lamp does not switch "OFF" and remains continuously "ON" at higher speeds, it is recommended not to drive the ABS motorcycle. Get the brake system inspected and corrected through a nearest Authorised Royal Enfield Service Centre. Failure to do so can result in a serious injuries and loss of life.

---

## WARNING INDICATIONS AND SAFETY SYSTEMS

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### CAUTION

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- ABS is a safety feature to help prevent locking of wheels during panic 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.
- Ensure instrument cluster is in proper functioning as it is an integral part of ABS system.

- Please apply both brakes simultaneously to stop with better traction and control of the motorcycle.
- Failure to adhere to the above can cause an accident resulting in serious injuries and loss of life.



---

### WARNING

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- Always use the approved front / rear tyres and rear sprocket by Royal Enfield to ensure correct ABS operation.
- Do not make any changes to the suspension travel.
- Only use recommended spare parts on the brake system which have been approved by Royal Enfield.
- ABS does not reduce braking distance. In certain circumstances, ABS may result in a longer stopping distance.

---

## WARNING INDICATIONS AND SAFETY SYSTEMS

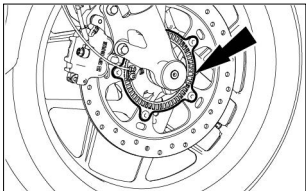
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### CAUTION

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- Visually inspect for damaged teeth on the front and rear ABS toner rings.



- Inspect for damages and dents on the face of the teeth.
- The teeth edges should be consistent in appearance. In case if a toner ring is found to be damaged or bent, it is recommended to visit nearest dealership for necessary action.

- Inspect for debris at the end of the wheel speed sensors - front & rear, if contamination is observed, it is recommended to clear it suitably or you may visit to nearest dealership for necessary action.

---

### ROLL OVER SENSOR

---

In the event of motorcycle falling over in either of its sides with the engine running and the gears engaged the roll over sensor will disable 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 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.

---

## WARNING INDICATIONS AND SAFETY SYSTEMS

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### DO'S AND DON'TS: (ABS)

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| DO'S  | DONT'S  |
|---|---|
| <ul style="list-style-type: none"><li>■ While starting the engine do check the ABS indicator glows ON and turns OFF when the vehicle speed exceeds 5 km/h (3.1 mph).</li><li>■ Please check the brake fluid level in the front and rear brake reservoir and ensure there is no leak in the brake systems.</li><li>■ Apply both the brakes simultaneously for better efficiency.</li><li>■ In the event of the ABS indicator remaining continuously ON, please take the motorcycle to a nearest Authorised Royal Enfield Service Centre to inspect the brake system.</li></ul> | <ul style="list-style-type: none"><li>■ Do not release 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><li>■ Do not apply only the front or rear brake as it can lead to inefficient braking.</li></ul> |

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## PRE-OPERATIONAL CHECKS

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A careful check of the following must be carried out every time before riding and specially after long periods of storage to determine if any additional maintenance is necessary.

1. Adequate fuel in the tank for the journey planned.
2. Tyre for correct pressure, abrasions or cuts.
3. Ensure chain for proper tension and sufficient lubrication.
4. Brakes, clutch, steering and throttle for proper responsiveness.
5. Smooth operation and free play in front and rear brake levers.
6. Engine oil level.
7. Headlamp, tail lamp, brake lamp and indicator lamps for proper functioning.
8. Proper functioning of all the warning lamps in the instrument cluster.

9. Brake fluid level is above the "MIN" mark in the master cylinder.
10. Ensure the clutch free play and clutch function.



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### WARNING

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For your personal welfare and safety, all the points mentioned above should be performed periodically. Failure to do so may affect safe operation, damage your motorcycle and could result in an accident causing serious injury or loss of life.



## RUNNING IN PERIOD

The Royal Enfield motorcycle as you would be experiencing is capable of consistent high speeds. However as with any new motorcycle, a "RUNNING-IN PERIOD" procedure is essential to help in proper "Bedding-in" of the various moving parts in your motorcycle and to achieve optimum performance like gear shifting subsequently.

1. Do not exceed maximum specified pay load.
2. 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.
3. Avoid full throttle operation and do not ride at constant throttle continuously. Vary the speed by 10% while riding.
4. Ride at proper speed and avoid sudden accelerations and braking.
5. Avoid riding motorcycle continuously for over an hour, it is recommended to take brief stop.

### NOTE

- During running in period, do not exceed the following speed limits for optimum engine performance.

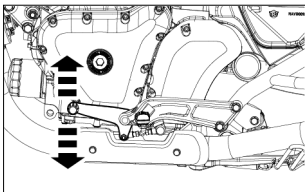
| Gear | Motorcycle speed                     |      |                                       |      |
|------|--------------------------------------|------|---------------------------------------|------|
|      | For first 500 km<br>(0 to 311 miles) |      | 501 to 2000 km<br>(311 to 1242 miles) |      |
|      | kmph                                 | mph  | kmph                                  | mph  |
| 1    | 35                                   | 22   | 50                                    | 31   |
| 2    | 50                                   | 31   | 70                                    | 43.4 |
| 3    | 60                                   | 37.2 | 90                                    | 56   |
| 4    | 70                                   | 43.4 | 110                                   | 68.3 |
| 5    | 80                                   | 50   | 120                                   | 75   |
| 6    | 90                                   | 56   | 130                                   | 81   |

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## STARTING

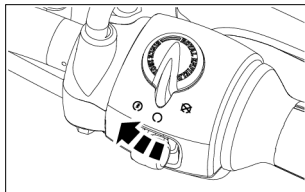
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- To shift into neutral, move the motorcycle back and forth gently, while simultaneously shifting the gear. Ensure gear is in neutral position and the neutral lamp is glowing in the instrument cluster.

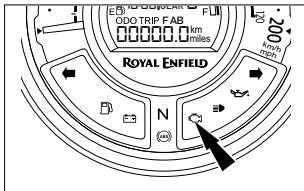


- Turn ignition key to ON position and engine kill switch on right hand side handle bar to run position.
- When both the ignition and engine kill switch is in "ON" position and after the vehicle is started, the MIL will glow for a few seconds and turns "OFF", this indicates

that all the function of the electronic fuel injection (EFI) system is functioning normally. In the event of any malfunction in the EFI system the MIL will glow continuously.



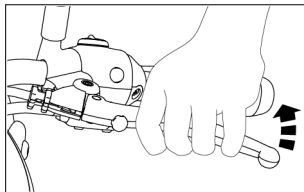
# STARTING



## CAUTION

- In case the malfunction indicator does not turn OFF, get the motorcycle checked through an Royal Enfield Authorised Service Centre for rectification.
- Check the fuel level indicator in the cluster for adequate fuel in the fuel tank. In case the last bar is blinking continuously, it indicates low fuel level in the tank. Please re-fuel immediately.

- Disengage clutch by pulling in the clutch lever and hold it in depressed condition.

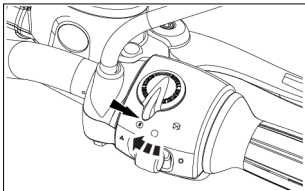


- Push and hold electric start switch until engine starts for a maximum of 5 seconds.

---

# STARTING

---



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## NOTE

- In case the engine does not start within 5 seconds, release starter switch and wait for about 5 seconds before attempting to start the engine again.
- In case vehicle not starting on multiple continuous attempts, please turn OFF and turn ON ignition switch and then start again.

---

## PRECAUTIONS

- Vehicle may start with side stand condition but will turn-off when gear is engaged, this side stand cut-off feature is provided for rider safety ensure side stand is removed before vehicle moving / starting.

---

## CAUTION

- If the engine does not start. Do not hold the starter switch in depressed condition for long periods, this will cause the battery to drain below the threshold level of 10 V. Please get the motorcycle checked through an Royal Enfield Authorised Service Centre to identify and correct the reason for not starting.

---

# STARTING

---

- Never accelerate as soon as the engine starts, especially in cold condition. The engine should be allowed to run in idle rpm for at least 120 seconds for the engine oil to circulate and lubricate all the internal moving parts and for the engine temperature to raise. Failure to adhere to this important information will cause serious damage to the engine internals.
- Accelerate only after the idling rpm has stabilized and it is consistent.



---

## WARNING

---

Please exercise extreme care while riding the motorcycle. Failure to do so can result in an accident causing injury to you or to other road users / passerby.

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

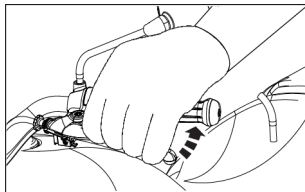
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## CAUTION

---

Do not attempt to shift gears without moving the motorcycle back and forth as it will damage the gears mechanism.

- Depress and hold the clutch Lever.
- Press starter button and hold till engine starts. Do not release the button before engine starts.



- Do not press the starter button more than 5 seconds after three successive cranking, wait for 15 to 20 seconds the battery to recover.

---

## GEAR SHIFTING, RIDING AND STOPPING

---

The clutch lever must be fully depressed before attempting a gear shift. Failure to fully depress the clutch lever will cause a rough start or stalling of the engine besides causing damage to transmission parts.

- When the vehicle is in Neutral position, press gear shift lever down with toe to engage 1<sup>st</sup> gear.

### GEAR SHIFT PATTERN

1 -- N -- 2 -- 3 -- 4 -- 5 -- 6

- It is recommended to use half clutch condition when commuting in the city traffic condition alone (Engine RPM close to idling) at 1st gear condition. In other gears and higher RPM avoid using half clutch which will proportionately reduce the clutch life. During acceleration / deceleration disengage the clutch completely, shift the gear and engage the clutch gradually (Not too slowly).

| Recommended up shift speeds       |      |     |
|-----------------------------------|------|-----|
| Gear change                       | km/h | mph |
| 1 <sup>st</sup> - 2 <sup>nd</sup> | 25   | 16  |
| 2 <sup>nd</sup> - 3 <sup>rd</sup> | 35   | 22  |
| 3 <sup>rd</sup> - 4 <sup>th</sup> | 45   | 28  |
| 4 <sup>th</sup> - 5 <sup>th</sup> | 60   | 37  |
| 5 <sup>th</sup> - 6 <sup>th</sup> | 75   | 47  |

| Recommended down shift speeds     |      |     |
|-----------------------------------|------|-----|
| Gear change                       | km/h | mph |
| 6 <sup>th</sup> - 5 <sup>th</sup> | 70   | 43  |
| 5 <sup>th</sup> - 4 <sup>th</sup> | 55   | 34  |
| 4 <sup>th</sup> - 3 <sup>rd</sup> | 40   | 25  |
| 3 <sup>rd</sup> - 2 <sup>nd</sup> | 30   | 19  |
| 2 <sup>nd</sup> - 1 <sup>st</sup> | 20   | 12  |

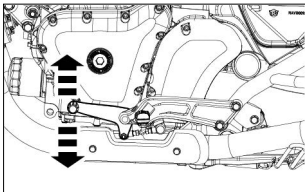
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## GEAR SHIFTING, RIDING AND STOPPING

---

### CAUTION

- If the clutch lever is released abruptly and throttle opening is done insufficiently the motorcycle will have a rough start and cause the engine to stall.



- If the acceleration is very high and clutch lever is released abruptly, it will cause motorcycle to move suddenly, which will lead to loss of control leading to an accident resulting in injury and or loss of life to rider / other road users / passed by, besides damage to the motorcycle.
- Always exercise utmost caution while releasing clutch

and riding the motorcycle.

- As soon as the motorcycle reaches a speed of 25 km/h (16 mph) in 1<sup>st</sup> gear position, shift to 2<sup>nd</sup> gear.
- Press gear shift lever up with toe to shift to 2<sup>nd</sup> and subsequent gears, as the speed of the motorcycle increases.

---

### NOTE

Always start motorcycle with the gear in neutral position. When the engine speed decreases or while climbing a gradient or running at a reduced speed, shift to the appropriate lower gear to prevent the engine from stalling or straining to pull.

- Always shift to lower gears as appropriate whenever slowing down to stop the vehicle.
- Shift gears to neutral position just before bringing the vehicle to a complete stop always.
- Close throttle fully and release the clutch lever slowly ensuring the motorcycle is in neutral position and neutral lamp is glowing.
- Stop the motorcycle in a safe place, turn OFF ignition and switch OFF engine kill switch.

---

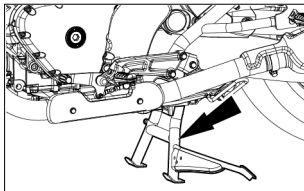
# PARKING

---

## PARKING MOTOR CYCLE ON CENTER STAND

---

- Park a motorcycle is upright on a firm and flat surface.
- Hold handle bar firmly in a straight position.
- Lower center stand, such that, both the legs of the stand are resting on a firm ground.



- Apply pressure on the fulcrum lever on the center stand and pull the motorcycle backward.

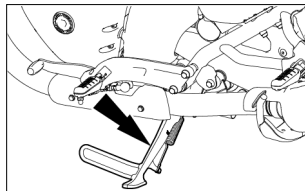
- Lock the steering and ensure the handle bar is locked firmly before removing the key from the ignition barrel.

---

## PARKING MOTORCYCLE ON SIDE STAND

---

- Park a motorcycle is upright on a firm and flat surface.
- Extend side stand. Tilt the motorcycle to the left side, till it is supported firmly on the ground.





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## PARKING

---



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### WARNING

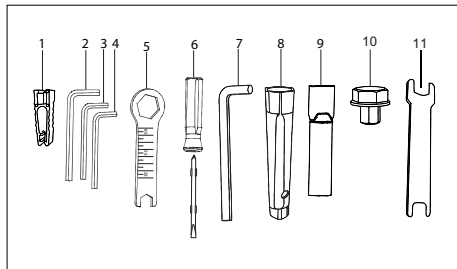
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- Ensure both stands are fully retracted before riding the motorcycle.
- Please exercise extreme care while parking and ensure it is parked on a firm and flat surface to avoid the motorcycle from falling over and causing injury to you or to others and damage to the motorcycle parts.
- The side stand is only designed for the weight of the motorcycle. Do not sit on the motorcycle when it is resting on the side stand. The side stand or frame may become damaged and the motorcycle may fall over.

## TOOLS KIT

The tool kit is located under the left side panel of the motorcycle.

| S.No | Description                    | Qty |
|------|--------------------------------|-----|
| 1    | Fuse puller                    | 1   |
| 2    | Allen key 6 mm                 | 1   |
| 3    | Allen key 5 mm                 | 1   |
| 4    | Allen key 4 mm                 | 1   |
| 5    | Ring spanner 24*14 combination | 1   |
| 6    | Screwdriver (Double end)       | 1   |
| 7    | Tommy bar                      | 1   |
| 8    | Spark plug spanner             | 1   |
| 9    | Extension tube                 | 1   |
| 10   | Front spindle adapter          | 1   |
| 11   | Open end spanner 12*16         | 2   |

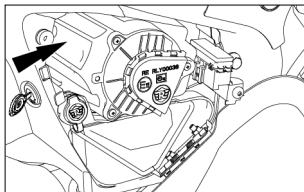


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## OWNER'S MANUAL STORAGE LOCATION

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- Please store the owners manual in the left side panel location.



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### CAUTION

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- Do not store the other documents or loose papers/items in the left side panel, it may lead to a block in the engine air inlet and may lead to vehicle performance issues.

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## MINOR MAINTENANCE TIPS

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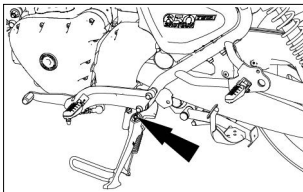
The following simple maintenance activities will help in maintaining your motorcycle. However for an elaborate maintenance, we recommend you to get in touch with a Royal Enfield Authorised Dealer / Service centre.

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### HAND LEVERS, CENTER AND SIDE STAND PIVOTS

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- Clean the pivot points and ensure they are free of any dirt, grime, rust, etc.
- Lubricate the pivots.



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### NOTE

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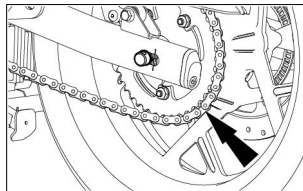
Wipe off the excess lubricant to prevent dirt and grime from accumulating.

---

### DRIVE CHAIN

---

- Spray drive chain with recommended chain cleaning solvent while simultaneously rotating rear wheel.

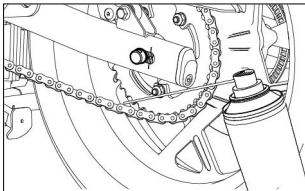


- Ensure the drive chain has been sufficiently and completely covered with the cleaning solvent. If necessary use a suitable brush to remove hard deposits from the chain.

---

## MINOR MAINTENANCE TIPS

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- Wait for a few minutes and clean the chain thoroughly from any dirt, grime, etc.
- Rotate rear wheel slowly and simultaneously apply recommended chain lubricant on the chain links.
- Wipe off excess chain lubricant after a few minutes with a clean cloth.

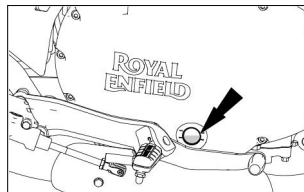
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### ENGINE OIL LEVEL CHECKING

---

- Ensure vehicle is in straight position on ground level.
- Start the vehicle and gently raise it to approximately half throttle for 10 seconds.

- Leave the vehicle in idling condition for 15 s.
- Switch OFF the engine and wait for 10 minutes for oil to settle down.
- Engine oil level should be close to "MAX" condition.



- If in case of oil level is not in above mentioned condition, then top-up the oil to "MAX" condition and repeat the procedure.
- Do not over fill above the "MAX" mark as it may affect the clutch function.

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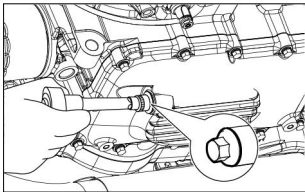
## MINOR MAINTENANCE TIPS

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### ENGINE OIL DRAINING

---

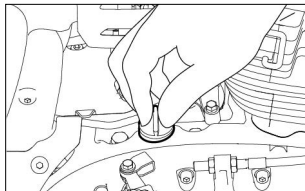
- Ensure vehicle is in straight position on ground level.
- Engine oil should always be drained when the engine is warmed up sufficiently so that the oil drains faster.
- Remove the oil drain bolt and wait for 5 minutes minimum till the engine oil drains completely.
- Drained engine oil quantity will be approx 2.1 L to 3.8 L (Oil drain quantity will vary depend on Kilometer covered).



### OIL FILLING DURING OIL SERVICE

---

- Ensure vehicle is in straight position on ground level.
- Clean the oil filter joint face in crankcase and new oil filter to be assembled along with new rubber gasket.
- Clean the oil drain hole joint face in oil pan and drain bolt.
- New washer to be used. Assemble the drain bolt with the specified loctite.



- Remove the oil filler plug & clean the oil filler cap joint face in crankcase and filler plug.

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## MINOR MAINTENANCE TIPS

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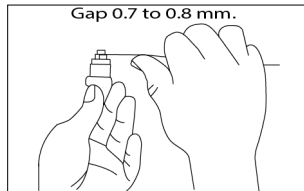
- Refill the specified fresh engine oil quantity 3.1 L.
- New oil filler plug O-ring to be used and assemble the oil filler plug into the crankcase.

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### SPARK PLUG CLEANING AND ADJUSTING PLUG CAP

---

- Disconnect spark plug caps from the spark plugs.
- Locate spark plug spanner on the spark plug, loosen spark plug and remove it from cylinder head.
- Check spark plug for carbon deposits and center electrodes for uneven wear.
- Clean the insulator tip and electrodes of the plug carefully.
- Check and set electrode gap between 0.7 to 0.8 mm.
- Always replace spark plugs only as per recommended specification.
- Apply a thin film of "anti seize" on the spark plug mounting and threads fix the spark plug by hand tightening.



- Tighten spark plug to torque 10 to 15 Nm by using a spark plug spanner available in the tool kit.

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### CHECKING BRAKE FLUID

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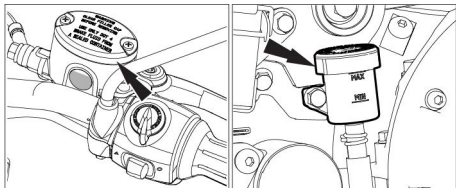
**Front:** Check that the brake fluid reservoir is horizontal and that the fluid level is center of the window consider as a minimum level.

**Rear:** Check that the brake fluid reservoir is horizontal and that the fluid level is between the "MAX" level and "Min" level marks.

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## MINOR MAINTENANCE TIPS

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Place your motorcycle in an upright position on a firm, level surface.

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### CAUTION

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- Brake fluid is highly corrosive and can cause damage to painted parts. Please ensure that 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.
- Do not mix DOT 4 & other brake fluid together.

---

### NOTE

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- Clean the filler cap before removing. Use only DOT 4 brake fluid from sealer container.
- Use only the specified brake fluid; otherwise, the rubber seals may deteriorate, causing leakage.
- Refill with the same type of brake fluid. Adding a brake fluid other than DOT 4 may result in a harmful chemical reaction.
- Be careful that water or dust does not enter the brake fluid reservoir when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock and dirt may clog the ABS hydraulic unit valves.



## MINOR MAINTENANCE TIPS



### WARNING

- An insufficient brake fluid level will cause the brake system to fail.
- Old brake fluid reduces the braking effect.
- Make sure that brake fluid for the front and rear brake is changed in accordance with the periodic maintenance schedule.
- Keep brake fluid out of the reach of children.
- Do not allow brake fluid to come into contact with the skin, the eyes or clothing.
- Brake fluid is highly corrosive and can cause damage to painted parts. Ensure brake fluid does not spill on any part of the motorcycle, in the event of spill please clean the area immediately with a soft cloth to avoid damage.

### INSPECTION OF TYRES AND WHEELS

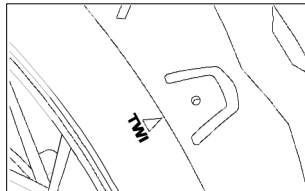
- Inspect the tyres periodically for tread wear, cracks and cuts.

#### Minimum tread depth:

Front tyre: 1 mm

Rear tyre: 2 mm

- Check and remove stone, splinters, nails or other particles embedded in the tyre treads.



## MINOR MAINTENANCE TIPS

- Periodically inspect the alloy wheel rim run out.
- Check proper seating of the tyre beading on the rim whenever the tyre is reassembled.
- Use only recommended tyres, inflated to correct air pressure.

| Tyre pressure | Front                          | Rear                           |
|---------------|--------------------------------|--------------------------------|
| Solo          | 32 psi/2.24 kg/cm <sup>2</sup> | 36 psi/2.53 kg/cm <sup>2</sup> |
| With Pillion  | 32 psi/2.24 kg/cm <sup>2</sup> | 42 psi/2.95 kg/cm <sup>2</sup> |



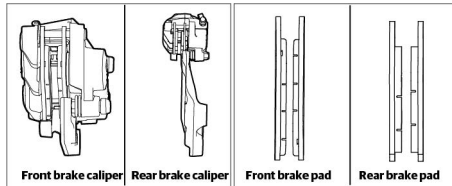
### WARNING

- It is recommended to operate the motorcycle with correct tyre pressure as under inflated tyres may cause tyre to overheat and may result in tyre damage and may cause injury to the rider.

- It is recommended to use Royal Enfield tyre specification in case of replacement of new tyres, failure to adhere the same may result in tyre damage and may cause injury to the rider.

## BRAKE PADS

- The front and rear brake pads must be checked for wear at the intervals specified in the periodic maintenance chart.



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## MINOR MAINTENANCE TIPS

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**Front/Rear :** The pads need to be replaced if a brake pad is warm to the indicator.

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### NOTE

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- Royal Enfield Motorcycles fitted with disc brakes have the optimum braking systems and are built to give a superior and safer braking performance under all conditions.
- Disc braking systems can produce a mild noise under certain riding conditions. This is absolutely normal and characteristic of the disc brake pads across the motorcycle industry. This in no way will affect the performance of the motorcycle or the braking system.
- At Royal Enfield, we have robust and rigorous testing and development protocols and adhere to global validation standards of quality and durability. We are committed to giving our customers the best possible ownership experience with our motorcycles.

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### BRAKE BED-IN PROCEDURE

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- For optimal wear and to prevent abnormal brake noise, new brake pads and discs need to be bedded in. Allow for 200 miles or 300 kilometers of riding, ideally of urban riding and not highway cruising, for the pads to bed in. During this process, brakes should be used frequently. Apply the brakes lightly during the first few stops and gradually increment the braking force throughout the bed in process. Allow for the brakes to cool down between brake applications.

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### NOTE

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- Bedding in procedure must not take precedence over using the brakes appropriately for road conditions.

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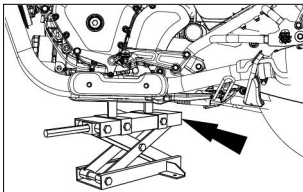
## MINOR MAINTENANCE TIPS

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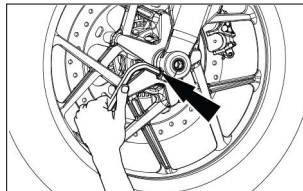
### FRONT WHEEL REMOVAL

---

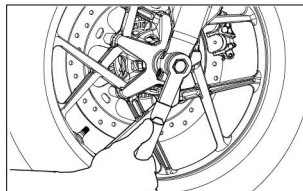
- Ensure motorcycle is upright on a firm and flat surface.
- Locate a scissor jack under the engine and lift motorcycle such that the front wheel is off the ground by minimum 15 cm.



- Loosen and remove fork clamp bolt from LHS front fork assembly by using 6 mm Allen key available in the tool kit.



- Loosen and remove spindle bolt from LHS front fork assembly by using front spindle adapter, ring spanner and extension tube are available in the tool kit.

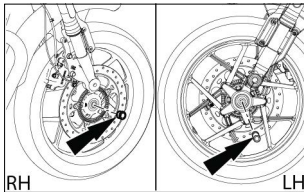


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## MINOR MAINTENANCE TIPS

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- Gently pull out the spindle from LHS by hand once fully unscrewed.
- Gently lower the wheel such that it comes out of the fork legs.
- Remove spacers from front wheel hub on both LHS and RHS.

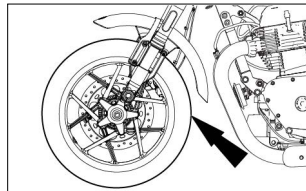


---

### CAUTION

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Take care to secure the wheel spacers and speed sensor while removing the axle from the forks.



---

### CAUTION

---

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

- Place a 4 mm thick wooden piece or cardboard sheet between the brake pads to avoid pads activation in the event the front brake lever is accidentally pressed.

---

## MINOR MAINTENANCE TIPS

---

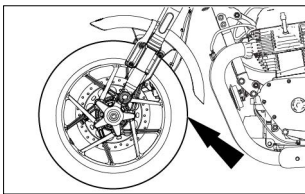
- Take care not to damage the front brake disc or toner ring as it will affect the braking system and ABS.

---

### FRONT WHEEL ASSEMBLY

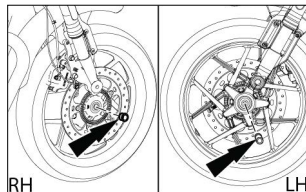
---

- Remove the wooden piece / cardboard sheet placed between the brake pads.
- Locate spacer to the wheel hub on both LH and RH side.



- Insert the wheel along with spacers between the fork ends. Ensure the brake disc is located between the brake pads.

- Support the wheel at a height that the spindle can be fitted through the fork legs and wheel. Insert the spindle from the LHS and push until the threads of the spindle engage with those of the RHS fork leg then screw spindle until fully seated.

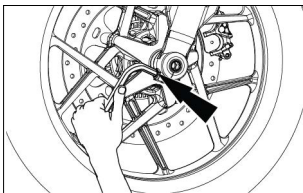
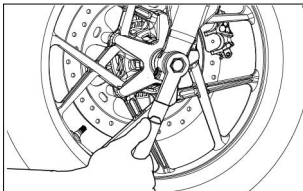


- Tighten spindle bolt firmly on LH side to a torque of 65 Nm.

---

## MINOR MAINTENANCE TIPS

---



- Tighten fork clamp bolt firmly on LH side to a torque of 23 Nm.
- Rotate wheel to check for smooth rotation.
- Press brake lever and check front brake efficiency.

---

### CAUTION

---

- Please exercise utmost caution while reassembling the front wheel on the motorcycle.
- Please ensure the wheel is fitted correctly before attempting to ride the motorcycle.
- Failure to do so may result in the motorcycle not performing correctly, may lead to an accident causing injury to you / other road users and may lead to loss of life.

---

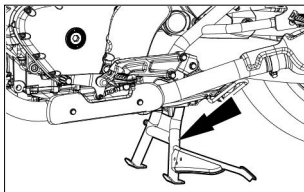
## MINOR MAINTENANCE TIPS

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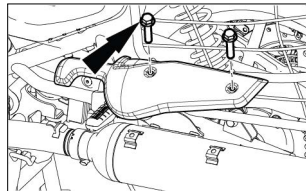
### REAR WHEEL REMOVAL

---

- Ensure motorcycle is upright on a firm and flat surface.
- Apply the center stand.



- Loosen and remove the silencer guard bolts (2 No's) by using a 10 mm spanner.



---

### CAUTION

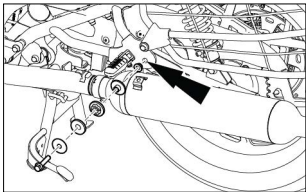
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Do not perform any operation on exhaust pipes and silencers soon after the motorcycle is OFF. They can extremely hot and will cause serious injuries. Always wait until the silencer is completely cooled down.

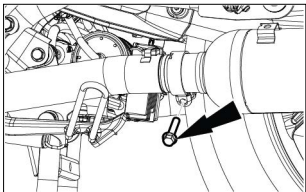
- Remove the bolt with nut and washers from the silencer top end by using a 12 mm socket with a spanner.



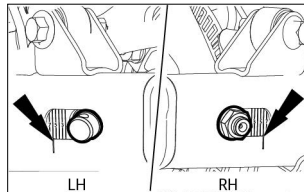
## MINOR MAINTENANCE TIPS



- Remove the silencer dome clamp bolt with nut from the muffler by using a 12 mm socket with a spanner.



- Observe and mark the alignment indexes on both chain adjuster on left and right side swing arm.

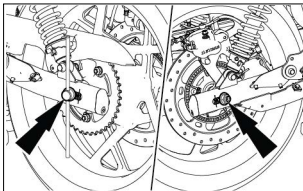


- Loosen the lock nuts and adjuster nuts fully on the left and right side chain adjuster.
- Hold wheel spindle on left side firmly and loosen hex nut on right side. Then remove the nut and washer from the wheel spindle.
- Push rear wheel fully into the swing arm.

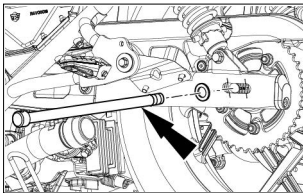
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## MINOR MAINTENANCE TIPS

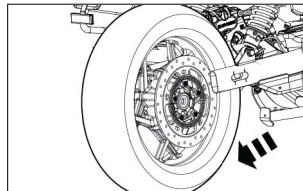
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- Support rear wheel from bottom and pull out wheel spindle from the left side swing arm.



- Release the brake hose gently and remove caliper assembly from swing arm on right side.



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### CAUTION

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Ensure brake hose does not get damaged or kinked while removing. Support caliper assembly suitably and away from swing arm.

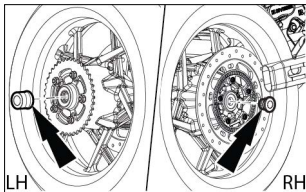
- Release the chain from the sprocket and ensure it does not get jammed or damaged when removing rear wheel.

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## MINOR MAINTENANCE TIPS

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- Remove support from wheel bottom and gently slide out rear wheel from the swing arm with rear sprocket, brake disc and spacers.



---

### CAUTION

Do not press the rear brake pedal when the rear wheel is being removed as this will cause the brake pads to dislocate from the brake caliper.

- Place a 4 mm thick wooden piece or cardboard sheet between the brake pads to avoid activation of brake pads if rear brake pedal is accidentally pressed.

---

### CAUTION

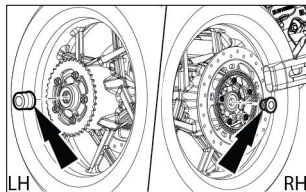
Do not pull up the rear brake pedal to lift or raise the motorcycle for any reason.

---

### REAR WHEEL ASSEMBLY

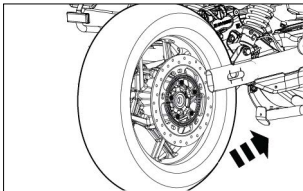
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- Ensure stepped spacer is located on the brake disc side, the lip of the spacer should be inserted through the bearing seal.

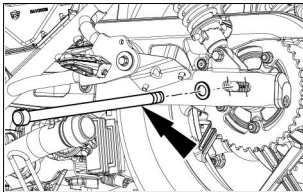


- Ensure spacer is located along the sprocket side on the wheel hub.

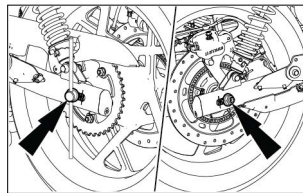
## MINOR MAINTENANCE TIPS



- Ensure that the chain adjuster are located properly inside the swing arm left and right sides.



- Locate caliper assembly on the tab along the swing arm right side.
- Locate rear wheel with the sprocket to the left side ensuring the brake disc in between the brake pads on right side.
- Lift up the rear wheel and ensure that the slots in the swing arm brake caliper bracket holes in chain adjusters and the center hole in the hub are aligned.

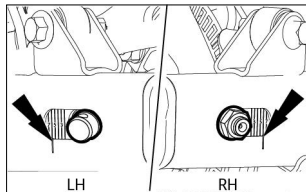


- Support rear wheel suitably and insert rear wheel spindle along the left side swing arm into the wheel hub.

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## MINOR MAINTENANCE TIPS

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- Tap spindle gently into wheel hub slot till the threads are completely visible on the right side.
- Assemble the drive chain on the sprocket and ensure it is seated correctly.
- Check for free and smooth rotation of the rear wheel.
- Assemble washer and hex nut on wheel spindle on right side.

---

### NOTE

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Do not tighten hex nut fully.

- Tighten chain adjuster nuts on left and right adjuster such that the index marks are aligned correctly on both sides of the swing arm.
- Check and ensure correct chain tension and wheel alignment.
- Hold spindle firmly on left side and tighten hex nut on right side set torque to 70 Nm.
- Locate the caliper assembly on swing arm right side.
- Check rear brake for proper operating efficiency.

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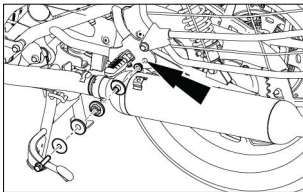
### CAUTION

---

Please exercise utmost caution while reassembling the rear wheel on the motorcycle. Please ensure the wheel is fitted correctly before attempting to ride the motorcycle. Failure to do so will result in poor performance of motorcycle which may lead to an accident causing injury to you / other road users and may lead to loss of life.

## MINOR MAINTENANCE TIPS

- Refit the bolt with nut and washers to the silencer top end, then assemble the silencer guard and dome.



### CLUTCH CABLE FREE PLAY INSPECTION/ ADJUSTMENT

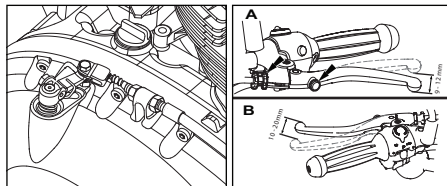
- Clutch cable free play, plays a major role in clutch life & it is recommended to adjust whenever required for good clutch life.

### CLUTCH LEVER FREE PLAY SPECIFICATION

- Free play should be measured at ball end of clutch lever and should be 9-12 mm when handlebars are at LH position (Refer the image **A**). Straight should be checked at 10-20 mm (Refer the image **B**).
- For adjustment follow below procedure:

### NOTE

Clutch lever to be actuated 3 times before any measurement.



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## MINOR MAINTENANCE TIPS

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### MINOR ADJUSTMENT - CLUTCH CABLE LEVER END

---

- Minor adjustment of free play can be done at clutch cable lever end.
- Loosen the cable outer lock nut.
- Turn the nut clockwise to reduce the play or anticlockwise to increase the free play.
- Tighten firmly the lock nut after adjustment is done.
- After the adjustment, check the free play and confirm for specification.

### MAJOR ADJUSTMENT - CLUTCH CABLE LEVER END

---

- Major adjustment of free play can be done at clutch cable lever end.
- Loosen the cable outer lock nut.
- Turn the nut clockwise to reduce the play or anticlockwise to increase the free play.
- Firmly tighten two lock nuts using 12 mm spanner available in the tool kit. After adjustment is done.

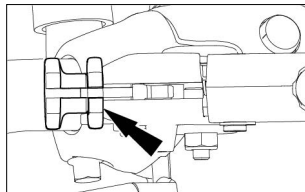
- After the adjustment, check the free play and confirm for specification.

---

### CAUTION

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- If you are not comfortable to adjust free play as per stated procedure, please visit near by service centre.
- If desired free play is not achieved or there is a suspect of clutch slip- keep positive free play & reach nearest service centre.



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## MINOR MAINTENANCE TIPS

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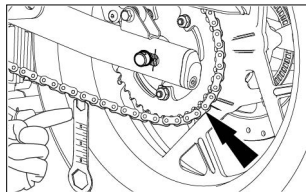
- Adjuster nut should rest properly in the threaded region. No overhanging (Ref. image)
- Clutch free play should be checked and adjusted only when the engine is cold.
- During clutch play checking, check the clutch cable for any abnormality as it is in vehicle condition.
- If any abnormality suspected, reach nearest service centre.

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### DRIVE CHAIN TENSION (FREE PLAY 20-30 mm)

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- Park motorcycle up right on a firm and flat surface.
- Ensure the motorcycle is in neutral position.
- Measure the drive chain free play as shown. The drive chain free play is 20 to 30 mm.
- If the drive chain free play is found to be incorrect adjust as follows:



- (a) Loosen the axle nut of the rear wheel axle.
- (b) Tighten the LH & RH chain adjusters in the swing arm using a 6 mm Allen key available in the tool kit.
- (c) To reduce the free play, tighten the adjuster bolt on the adjuster evenly.
- (d) To increase the free play, loosen the adjuster bolt evenly and push the rear wheel forward.
- (e) Check the chain for correct chain tension.
- (f) Ensure that the index marks on the adjuster and swing arm are same on both left and right side of the swing arm.



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## MINOR MAINTENANCE TIPS

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- (g) Hold spindle firmly to the left side and tighten rear hex nut to a torque of 70 Nm.
- (h) Tighten the LH and RH chain adjusters in the swing arm using 6 mm Allen key available in the tool kit.



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### WARNING

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Chain slackness beyond 30 mm will lead to chain slippage and may also cause increased wear rates to chain and sprockets.

Please ensure the both wheels are aligned correctly, after adjusting the chain and before tightening the rear wheel spindle nut.

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### BATTERY AND MAINTENANCE

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- The Motorcycle is provided with 12 V - 12 Ah VRLA battery.
- The battery must be periodically checked for cleanliness and corrosion free terminals.

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### NOTE

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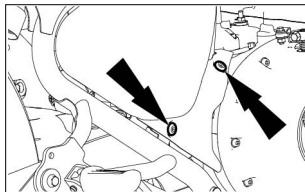
The poor contact or loose fitment of battery terminals may cause ECU failure.

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### DISMANTLING

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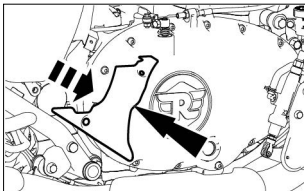
- Switch "OFF" the engine and remove ignition key from the key barrel.
- The battery is located inside the right side panel.



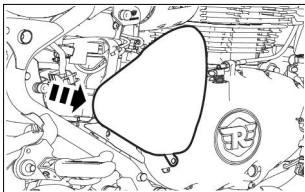
- Loosen and remove button head screws 2 nos from RHS reservoir panel by using 5 mm Allen key available in the tool kit.

## MINOR MAINTENANCE TIPS

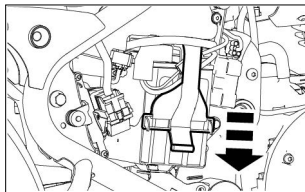
- Remove the reservoir panel from right side panel.



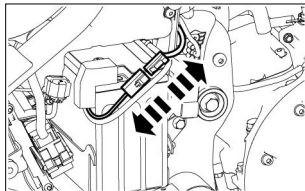
- Pull the side panel outside for opening the same.



- Pull battery strap (belt) downwards and release strap lock from battery strap bracket.

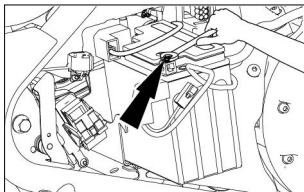


- Disconnect the black negative (-ve) coupler.



## MINOR MAINTENANCE TIPS

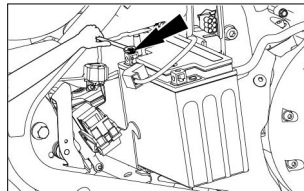
- Disconnect battery black negative (-ve) terminal bolt by using 10 mm spanner.



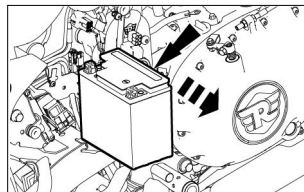
### WARNING

Always disconnect the black negative (-ve) battery cable first and then the red positive (+ve) cable while removing the battery connections.

- Slightly slide it outward the battery for remove (+ve) terminal bolt.
- Disconnect battery red positive (+ve) terminal bolt by using 10 mm spanner.



- Remove battery from tray.



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## MINOR MAINTENANCE TIPS

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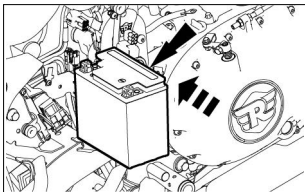
### NOTE

Usage of frequency for motorcycle is very important for battery to be in good performance condition. If the motorcycle is being used very rarely or sparingly and the terminals are not disconnected the battery is bound to lose its charge and result in a dead battery.

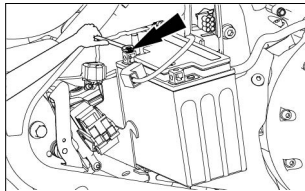
For checking the battery voltage contact Royal Enfield Authorised Service Centre or battery service centre.

### ASSEMBLY

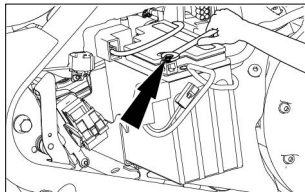
- Assemble battery into tray.



- Connect battery red positive (+ve) terminal bolt.



- Connect black battery negative (-ve) terminal bolt.

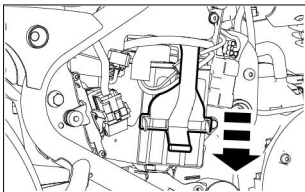


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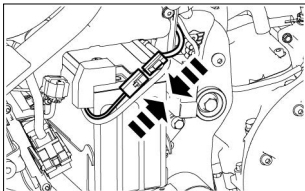
## MINOR MAINTENANCE TIPS

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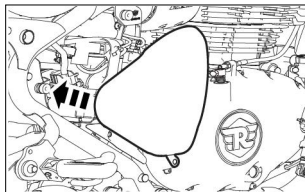
- Pull battery strap (belt) downwards to fix strap lock into battery strap bracket.



- Connect the negative black (-ve) coupler.



- Locate the side panel into the frame.
- Locate the reservoir panel on the right side panel.
- Tighten the button head screws 2 nos on the RHS reservoir panel.



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### CAUTION

Connect the red (+ve) positive terminal after connect black (-ve) negative terminal only.

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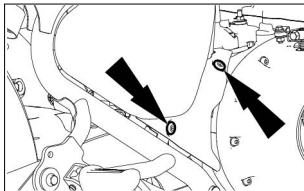
### NOTE

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

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## MINOR MAINTENANCE TIPS

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### CAUTION

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Keep the red (+ve) positive terminal and (-ve) negative terminal cables firmly connected to the respective battery terminals. Failure to do so may result in damage to the motorcycle electrical system.

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## CHANGING ELECTRICAL COMPONENTS

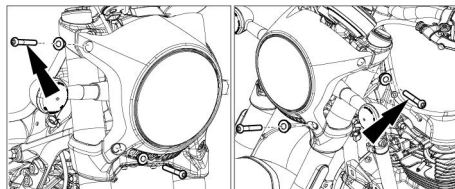
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### HEADLAMP DISMANTLING

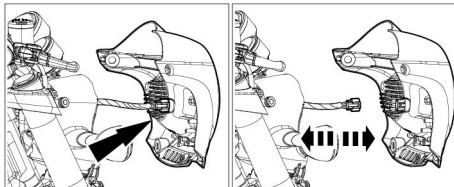
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- Remove the headlamp cowl top button head bolt, it's a length type 2 Nos by using 4 mm Allen key. Then remove the headlamp cowl bottom short bolt 2 Nos by using 4 mm Allen key.

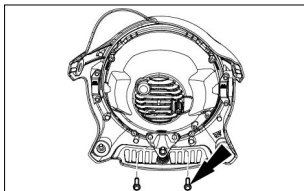


- Gently pullout the headlamp rim along with reflector assembly.
- Disconnect head lamp coupler.

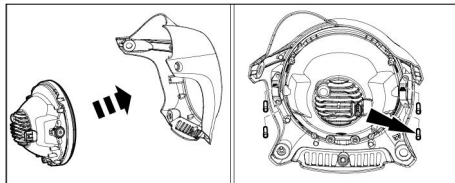
## MINOR MAINTENANCE TIPS



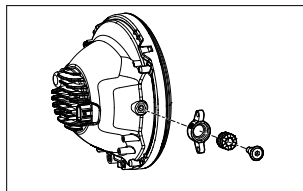
- Gently loosen and remove the headlamp adjuster bracket bolt 2 Nos from headlamp cowl by using 8 mm socket kit.



- Loosen and remove the LH & RH side mounting Allen screws 4 Nos by using 4 mm Allen key.



- Loosen and remove the side mounting clamp for both sides by using 5 mm Allen key.



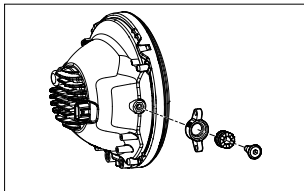
## MINOR MAINTENANCE TIPS

### NOTE

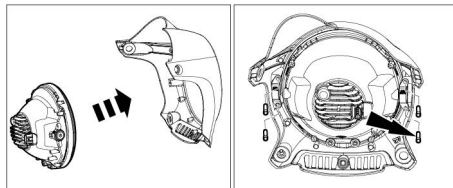
- The headlamp has a LED lighting system. In the event of failure, the headlamp LED assembly should be replaced.
- Contact an Royal Enfield Authorised Dealer/Service Centre to replace the same.

### HEADLAMP ASSEMBLY

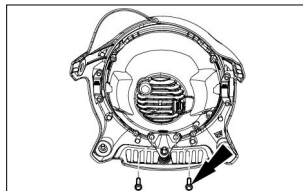
- Tighten and refit the side mounting clamp for both sides 2 Nos to head lamp.



- Tighten and refit the LH & RH side mounting Allen screws 4 Nos.



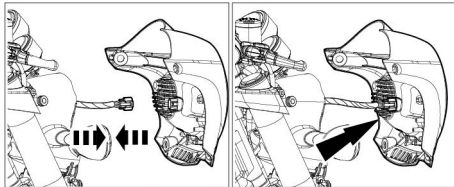
- Tighten and refit the headlamp adjuster bracket bolt 2 Nos to headlamp cowl.



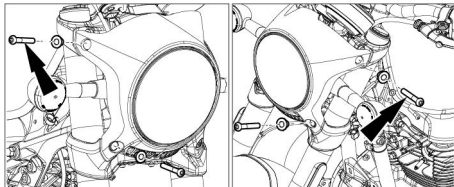


## MINOR MAINTENANCE TIPS

- Connect head lamp coupler.
- Refit the headlamp rim along with reflector assembly.

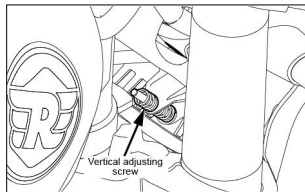


- Tighten and refit the headlamp cowl top and bottom button bolt 4 Nos.



## HEAD LIGHT BEAM ADJUSTMENT

- The headlight beam focus can be adjusted in vertical direction by using the adjusting screw by turning clockwise or anti clockwise direction.
- The adjusting screw is used to increase or decrease the height of the headlight beam in direction vertical direction only. This may be required to increase the visibility and to help prevent the other riders/vehicles passing nearby.



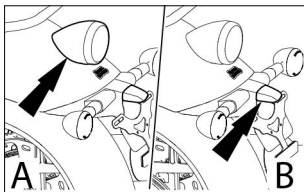
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## MINOR MAINTENANCE TIPS

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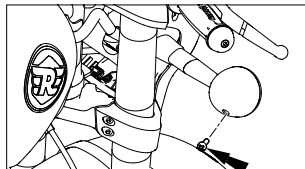
### TAIL LAMP & LICENSE PLATE ILLUMINATOR

- The tail lamp (A) & license plate illuminator (B) has a LED lighting system. In the event of failure, the entire tail lamp (A) & license, plate illuminator (B) assembly should be replaced.
- Contact an Royal Enfield Authorised Dealer/Service Centre to replace the same.

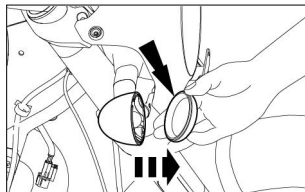


### TRAFFICATOR BULB REMOVAL

- Loosen and remove screw from trafficator assembly by using star screw driver.

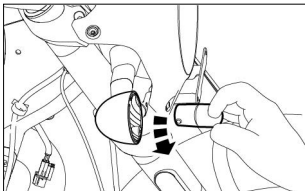


- Remove the lens cover from trafficator assembly.



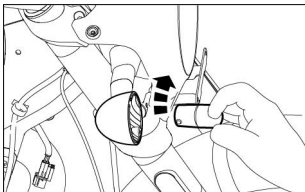
- Gently press and turn it anti clockwise to remove bulb from holder.

## MINOR MAINTENANCE TIPS

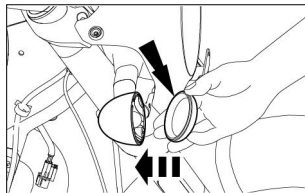


### TRAFFICATOR BULB ASSEMBLY

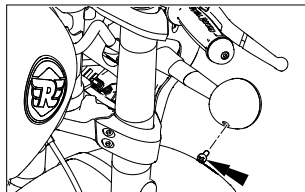
- Gently press and turn it clockwise to fix the bulb into holder.



- Locate lens cover into trafficator assembly.



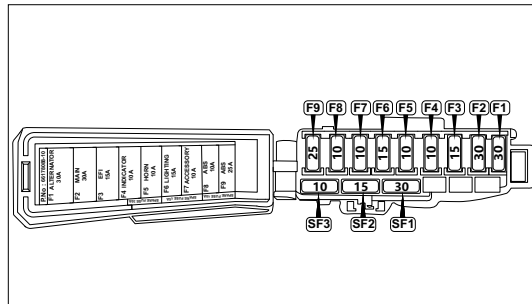
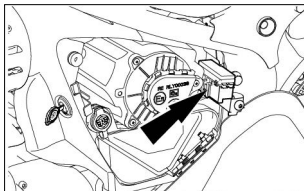
- Tighten screw into trafficator assembly.



# MINOR MAINTENANCE TIPS

## FUSE AND FUSE CARRIER

- The fuse carrier is located inside the left side panel.
- Insert ignition key and turn it anticlockwise.
- Pull the side panel outside for opening the same.



## MINOR MAINTENANCE TIPS

### MINI BLADE FUSE USAGE LIST

| Fuse ID number  | Color | Rating | Remarks         |
|-----------------|-------|--------|-----------------|
| F1              | GRE   | 30A    | Alternator      |
| F2              | GRE   | 30A    | Main fuse       |
| F3              | BLU   | 15A    | EFI             |
| F4              | RED   | 10A    | Indicator       |
| F5              | RED   | 10A    | Horn fuse       |
| F6              | BLU   | 15A    | Lighting system |
| F7              | RED   | 10A    | Accessory       |
| F8              | RED   | 10A    | ABS fuse-1      |
| F9              | WHT   | 25A    | ABS fuse-2      |
| Spare fuse list |       |        |                 |
| SF1             | GRE   | 30A    | Spare fuse      |
| SF2             | BLU   | 15A    |                 |
| SF3             | RED   | 10A    |                 |



### WARNING

Please get the electrical system of your motorcycle checked thoroughly and get the faults corrected immediately after experiencing any fuse failure. Failure to do so may result in repeated fuse failure.

Usage of fuses other than specified rating or usage of any other conductive materials or low grade fuses will damage the complete electrical system.

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

Any attempt to jumper a defective fuse gives rise to the risk of a short-circuit and fire. Always replace a defective fuse with a new fuse of the same rating.

### NOTE

Make sure the ignition switch is in "OFF" position when replacing the bulbs, fuses and electrical parts.

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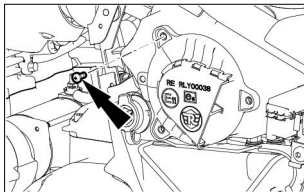
## MINOR MAINTENANCE TIPS

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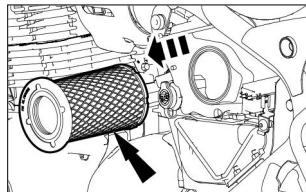
### AIR FILTER

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- The air filter is located inside the left side panel.



- Remove the air filter cover screws by using screw driver available in the tool kit.
- Take out the cover from air filter box.
- Pull out filter element and check for dirt. Clean filter element carefully.



- Check for dust, oil particles inside air filter box and clean carefully.

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### NOTE

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Usage of high pressure compressed air is not recommended to clean air filter element. Fitment of air filter element is in the reverse order of removal process.

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## **LONG TRIP PRECAUTIONS**

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

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- Service the motorcycle at Royal Enfield Authorised Service Centre.
- Ensure sufficient quantity of fuel is always available in the fuel tank for the journey planned.
- Check and correct tyre pressure if necessary.

### **CHECK ALL OF THESE ASPECTS BEFORE LONG RIDE**

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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.
- Clutch cable free play.

### **ITEMS TO BE CARRIED**

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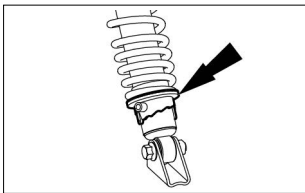
- Tools kit.
- Trafficator light and fuse.
- Accelerator and clutch cables.
- Spark plug, spark plug cap and fuel hose.

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## REAR SUSPENSION SETTING

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- Rest the motorcycle on center stand.
- Ensure the tyre pressure is at recommended specification.
- Ensure adjuster are clear of all dirt and debris before adjusting, if they have dirt or debris please clean it suitably before adjusting.



- The adjuster is a 5 step adjuster and it is kept at first notch position.

- Adjust shock preload by rotating the adjuster clockwise using Allen key to increase the preload.
- Adjust shock preload by rotating anti-clockwise using Allen key to decrease preload (to make it to first notch position).
- Make the same adjustments on both sides, uneven adjustment may lead to discomfort to the rider.

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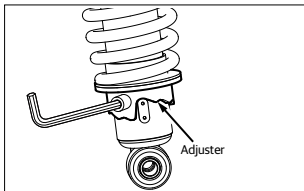
### NOTE

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- Adjusting the suspension requires a Allen key. It is we recommend to use the Allen key that is given in your vehicle tool kit. Extension tube to be used for leverage purposes.
- The best spring preload setting is achieved when it is set for the weight of the rider and that of any luggage and a passenger.



## REAR SUSPENSION SETTING



- We recommend to increase the preload and keep it at final notch for fully loaded (GVW condition), thus ensuring an ideal compromise between handling and stability.
- Do not use any additional tools for this purpose other than 5 mm Allen key.

| Condition   | Max reference payload   | Suspension setting notch | Tyre pressure (psi) |      |
|---|---|--------------------------|---------------------|------|
|   |   |                          | Front               | Rear |
| Unladen / One up loading / Rider only                             | Rider up to 90 kg   | 1 <sup>st</sup>          | 32                  | 36   |
| Laden / Two up / Rider + Pillions / Rider + Pillion + Accessories | Up to a maximum of 180 kg payload (Inc of rider weight, pillion weight and accessories) | 5 <sup>th</sup>          | 32                  | 42   |

\* Ensure the preload is set equally on the LH and RH rear suspension.

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# WASHING PROCEDURE

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## PRECAUTIONS

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- Remove ignition key and seal the ignition key barrel slot using adhesive tape.
- Please remove tool kit and other relevant documents if any inside the right side panel before proceeding for washing of the motorcycle.
- Cover the silencer tail pipe, horn and control switches with suitable plastic bags and tie if firmly to prevent water entry.
- Wash the motorcycle only when the engine is in cold condition.
- Do not remove side panel while washing to avoid water entry.
- Brush engine area with a recommend non corrosive solvent to remove dirt or grease.
- Use low pressure water jet to clean.
- Never spray water with great force on head lamp, speedometer, tripper, flasher lights, front and rear wheel hubs, electrical connections and wires, control cables, spark plug, battery, ABS ECU, EMS ECU, side mirrors, steering stem etc.
- Do not use high pressure washers or steam jet cleaners near the seal of headstock bearing or steering stem bearing, seal of wheel bearing, brake calipers, air intakes & exhaust outlets.
- Do not apply any corrosive solvent on painted surfaces or rubber parts.
- Use lukewarm water and mild detergent on the painted components to remove dirt, etc.
- Clean motorcycle thoroughly with plain water to remove the detergent.
- Never spray water towards bottom side of instrument cluster directly to avoid water entry through breather holes.
- If possible, use compressed air and blow off water particles from the obscure areas of the motorcycle, electrical connections etc.

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## WASHING PROCEDURE

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- Once the motorcycle has been ridden in salty conditions (i.e. during winter in places where road salt is used) or near coastal areas it is recommended to wash your motorcycle with cold water after the ride to prevent corrosion or rust build-up. Please do not use warm water for washing as it may damage the motorcycle due to chemical reaction with the salt. After washing process once the motorcycle is completely dry it is recommended to apply anti corrosion spray on all the metal and chrome plated areas to protect the parts from corrosion.
- It is recommended not to apply the anti-corrosion spray on the brake discs.
- Do not use petrol, brake oil or other flammable liquids to clean or wash on electronic parts.
- The parts chosen using motorcycle configurator should not be washed with soap or chemical, use only with plain water.
- 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 lint free absorbent cloth or chamois leather.
- Remove all adhesive tapes.
- Lubricate control cables, pivots for footrest, side stand, center stand, brake and gear shifter linkages, drive chain etc., with lube oil.
- Polish the painted and plated surfaces using recommended automobile polishing wax.
- Start the engine and allow to run at an idling speed for a few minutes to warm up engine.
- Drive the motorcycle slowly, apply both the brakes intermittently to dry up the water in brake pads.
- Please clean / wipe out water spoils completely inside the RH side panel before keeping tools kit and other relevant documents inside the right side panel.

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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 Authorised Service Centre.
- Drain the fuel completely from the fuel tank and induction system.
- Remove spark plug, Pour in about 5 ml of clean engine oil through spark plug hole. Close the hole and crank engine several times and refit spark plug.
- Clean drive chain thoroughly and apply Royal Enfield recommended chain lubricant.
- Wipe off excess lubricant after 5 minutes of application.
- Remove charging circuit fuse from the fuse box.
- Store the battery in a cool, dry and well ventilated place.
- Cover the silencer with suitable 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 chrome, 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 Authorised Service Centre to ensure the motorcycle is restored to its peak operating conditions.
- If the motorcycle is not used for a month or longer, 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.

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## TROUBLESHOOTING

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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 Authorised Dealer/ Service Centre to rectify the problem and to ensure trouble free performance.

| Symptom               | Observations  | Check for/Remedy   |
|-----------------------|---|--|
| Engine does not start | If the ignition/Engine kill switch in OFF position        | Switch ON ignition   |
|                       | If inadequate fuel level in fuel tank                     | Top up the fuel  |
|                       | If the lights are dim/weak horn sound                     | Weak or discharged battery / problem in charging circuit Contact Authorised service center       |
|                       | If fuse is blown  | 1. Replace the fuse with same rating<br>2. Contact Authorised service center if problem persists |
|                       | Connection issue with spark plug, cap, high tension cable | Reconnect spark plug, cap and high tension cable.  |

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## TROUBLESHOOTING

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| Symptom  | Observations   | Check for/Remedy  |
|--|--|---|
| Engine starts but side stand on retract position vehicle does not move | If the MIL lamp in cluster is glowing                        | Check the side stand position                                     |
| Engine misfires & runs erratically/ stops.                             | If any adulteration/water in fuel                            | Contact Authorised service center                                 |
|  | If the engine is too hot                                     | Switch OFF the engine and allow it to cool down                   |
| Poor pickup  | If engine RPM raises disproportionately to the vehicle speed | Adjust the clutch free play and contact Authorised service center |
| ABS (Anti - lock Braking System)                                       | If the ABS lamp continuously ON                              | Contact Authorised service center                                 |

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## **ENVIRONMENT CARE**

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### **BE AN ENVIRONMENTALLY CONSCIOUS RIDER**

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You've ridden through some beautiful places on your Royal Enfield. Won't you like to keep them that way? Here are some tips to help you keep those places unspoilt so that others can enjoy them too:

### **DISPOSAL OF END OF LIFE - PARTS / VEHICLE**

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While your liquid waste like engine oil, coolant and other cleaning solvents need to be regularly replaced, what happens to them? Make sure they are not dumped in the soil or water bodies.

You shall store them in a container and handover to an Govt authorized recycling agent, If any or RE Service Centre.

In the case of battery, tyres, plastic parts, electric or electronic parts and oil filter shall be handed over only to an authorized recycling agent, If any or RE Service Centre.

The cleaning solvents or sprays whichever used for cleaning your bike shall be disposed in an environmentally friendly manner.

In case you want to dispose your vehicle considered as an end of life vehicle, please handover the vehicle only to an authorized / registered vehicle scrapping facility near you or contact local authorities to follow due process.

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## PERIODICAL MAINTENANCE

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The maintenance schedule detailed here will help you to maintain your Shotgun 650 motorcycle meticulously to get along trouble free service. The schedule provided herein is based upon an average riding conditions and indicates the km at which regular inspections, adjustments, replacements and lubrications are to be carried out. The frequency of the maintenance must be shortened depending upon the severity of the driving condition or if the motorcycle is used in a very dust environment. Contact the nearest Royal Enfield Authorised Service Centre for expert advice and to carry out the required maintenance.

| S.No | DESCRIPTION                            | PERIODICAL MAINTENANCE (Whichever is earlier)                  |      |      |       |       |      |
|------|--|--|------|------|-------|-------|------|
|      |  | 0.5  | 7.5  | 15   | 22.5  | 30    | 37.5 |
|      | km (x 1000)                            |  |      |      |       |       |      |
|      | Miles (x1000)                          | 0.3  | 4.66 | 9.32 | 13.98 | 18.64 | 23.3 |
|      | Months                                 | 1.5  | 12   | 24   | 36    | 48    | 60   |
| 1    | Engine oil (#)                         | R  | R    | R    | R     | R     | R    |
|      |  | Check level at every 1000 km or earlier and top up as required |      |      |       |       |      |
| 2    | Engine oil filter (#)                  | R  | R    | R    | R     | R     | R    |
| 3    | Inlet and exhaust valve clearance (**) |  | I    | I    | I     | I     | I    |
| 4    | Spark plug                             | I  | I    | R    | I     | R     | I    |



## PERIODICAL MAINTENANCE

| S.No | DESCRIPTION                                 | PERIODICAL MAINTENANCE (Whichever is earlier)                  |      |      |       |       |      |
|------|---|--|------|------|-------|-------|------|
|      | km (x 1000)                                 | 0.5  | 7.5  | 15   | 22.5  | 30    | 37.5 |
|      | Miles (x1000)                               | 0.3  | 4.66 | 9.32 | 13.98 | 18.64 | 23.3 |
|      | Months                                      | 1.5  | 12   | 24   | 36    | 48    | 60   |
| 5    | HT lead                                     | I  | I    | I    | I     | I     | I    |
| 6    | Rubber hose, Air filter to throttle body    | I  | I    | I    | I     | I     | I    |
| 7    | Rubber hose, Inlet manifold / Adapter       | I  | I    | I    | I     | I     | I    |
| 8    | Evaporative emission equipment rubber hoses | I  | I    | I    | I     | I     | I    |
| 9    | Air filter element                          | C  | R    | R    | R     | R     | R    |
|      |   | Clean / Replace more frequently if operated in dusty condition |      |      |       |       |      |
| 10   | Vent pipe under air filter box              | I  | I    | I    | I     | I     | I    |
| 11   | Throttle cable                              | A  | A    | A    | A     | A     | A    |
| 12   | Clutch cable / lever free play              | Adjust every 1000 km or earlier as required                    |      |      |       |       |      |

## PERIODICAL MAINTENANCE

| S.No | DESCRIPTION                                  | PERIODICAL MAINTENANCE (Whichever is earlier)   |      |      |       |       |      |
|------|--|---|------|------|-------|-------|------|
|      |  | 0.5   | 7.5  | 15   | 22.5  | 30    | 37.5 |
|      |  | 0.3   | 4.66 | 9.32 | 13.98 | 18.64 | 23.3 |
|      |  | 1.5   | 12   | 24   | 36    | 48    | 60   |
| 13   | Clutch lever & front brake lever pivots      | Lubricate every 1000 km or earlier as required  |      |      |       |       |      |
| 14   | Brake pads - Front and Rear                  | I   | I    | I    | I     | I     | I    |
| 15   | Brake fluid - Front and Rear                 | I   | I    | R    | I     | R     | I    |
| 16   | Rear brake pedal and gear change pedal pivot | L   | L    | L    | L     | L     | L    |
| 17   | Brake hose and banjo bolt - Front and rear   | I   | I    | I    | I     | I     | I    |
| 18   | Headstock bearings                           | I   | I    | I    | I     | I     | I    |
| 19   | Rear wheel drive chain                       | Clean, lubricate and adjust every 500 km or earlier as required or after riding in wet/dusty/muddy conditions |      |      |       |       |      |

## PERIODICAL MAINTENANCE

| S.No | DESCRIPTION                                     | PERIODICAL MAINTENANCE (Whichever is earlier) |             |             |              |              |             |
|------|---|---|-------------|-------------|--------------|--------------|-------------|
|      | <b>km (x 1000)</b>                              | <b>0.5</b>                                    | <b>7.5</b>  | <b>15</b>   | <b>22.5</b>  | <b>30</b>    | <b>37.5</b> |
|      | <b>Miles (x1000)</b>                            | <b>0.3</b>                                    | <b>4.66</b> | <b>9.32</b> | <b>13.98</b> | <b>18.64</b> | <b>23.3</b> |
|      | <b>Months</b>                                   | <b>1.5</b>                                    | <b>12</b>   | <b>24</b>   | <b>36</b>    | <b>48</b>    | <b>60</b>   |
| 20   | Rear wheel cush rubbers                         |   |             |             |              |              |             |
| 21   | Battery terminals (apply petroleum jelly)       |   |             |             |              |              |             |
| 22   | Earth wire eyelet tightness                     |   |             |             |              |              |             |
| 23   | Tyre wear pattern front and rear                |   |             |             |              |              |             |
| 24   | Side stand & center stand pivots                | L   | L           | L           | L            | L            | L           |
| 25   | Rider and pillion footrest pivot                | L   | L           | L           | L            | L            |             |
| 26   | All mounting fasteners in vehicle for tightness |   |             |             |              |              |             |

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## PERIODICAL MAINTENANCE

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A : Adjust C : Clean I : Inspect (Clean, Adjust, Lubricate or replace if necessary) L : Lubricate R : Replace

(#) - After first service, engine oil and engine oil filter replacement is required every 12 months regardless of kilometre.

(\*\*) - After first service, valve clearance adjustment is required every 12 months regardless of kilometre.

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### NOTE

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For maintenance after 37,500 km (23301.42 miles), please repeat the same frequency specified above, in consultation with a Royal Enfield Authorised Dealer / Service Centre.

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## WARRANTY TERMS AND 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 36 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 36 months from the date of first sale/registration of the motorcycle.
2. In order to avail warranty benefits by second or subsequent owner the second/subsequent owner should inform the nearest Royal Enfield Service Centre about the purchase of the bike and shall fill in the requisite details in the form as requested by Royal Enfield.
3. The warranty shall be applicable only if all the services are availed in the respective period/kilometer ranges as per the schedule in the owner's manual from RE Authorised Dealer/Service Centre.
4. 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.
5. Consumables like oil, oil filter, fuel etc. used during warranty repair/replacement are not covered and chargeable to the customer.
6. Claims on proprietary items like tyres, spark plug, battery etc., should be taken up with the respective manufacturer or their authorised 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 AND CONDITIONS

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### 7. 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 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 recommended GMA 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, discoloration of exhaust pipe bend and cat region/silencer/soft or hard shock absorber etc.
- (h) Warranty is not applicable for discoloration of exhaust pipe & silencer, as it is a natural process that will happen during usage.
- (i) Defects arising from fitment of unauthorised or additional electrical loads.

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## WARRANTY TERMS AND CONDITIONS

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- (j) Motorcycle serviced or repaired at unauthorised service centres.
  - (k) Motorcycle used for competitions/racing/stage rallying etc.
  - (l) Electrical component like bulbs, fuses etc., and electronic components failure including ECU due to repairs by arc welding.
  - (m) Motorcycle found with tampering/drilling/welding mark on any part of the frame.
  - (n) Normal maintenance operations like adjustment of brakes, cleaning fuel system, engine tune-up and other such adjustments.
  - (o) Oxidization of buffed/painted/powder coated items etc.
  - (p) Any damage resulting due to natural disaster i.e earthquake, fire and flood etc.
8. Use only Royal Enfield approved parts and accessories. Use of certain other manufacturer's performance parts will void your new motorcycle warranty.
9. RE reserves the right to finally decide on all warranty claims.
10. 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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## EMISSION WARRANTY

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Royal Enfield certifies that the following warranty is applicable to those components liable to affect the emission of the gaseous pollutants in its range of motorcycle, in normal use to which it may be subjected to.

This emission warranty is valid for 30,000 km/3 years from the date of first sale whichever earlier, to the first customer and is in addition to and parallel to the warranty policy, conditions and obligations laid down in the Owner's Manual.

Royal Enfield further warrants that if on examination by its Royal Enfield Authorised Service Centre, the motorcycle fails to meet the specified emission standards, then the Authorised Service Centre shall take necessary corrective measures and shall, at its sole discretion, repair or replace free of charge components of the emission control system to meet the required emission standards.

The method/s of examination to determine the warranty conditions of the emission warranty related components will be at the sole discretion of Royal Enfield and/or our Authorised Service Centre and results of such examination will be final and binding. If on examination the warranty conditions of the part/s is/are not established, Royal Enfield will have the right to charge all, or part of the cost of such examination to the customer in addition to the cost of the components.

In case of acceptance of the component/s under Emission warranty, Royal Enfield will replace free of charge the component/s as required. However, the consumables like fuel, lubricants, solvents, etc. shall be chargeable to the customer as per actuals.



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## **EMISSION WARRANTY**

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In case any of the components covered under emission warranty or the associated parts are not independently replaceable. Royal Enfield will have the sole discretion to replace either the entire assembly or parts of the assembly through suitable repairs.

Royal Enfield reserves the right to carry out necessary consequential repairs to the motorcycle or replace any part, in addition to the repair or replacement of the components covered under emission warranty. To establish compliance to in use emission standards. Such repairs/replacements will be chargeable to the customer.

All parts removed for replacement under warranty will become the property of Royal Enfield.

Royal Enfield will not be responsible for the cost of transportation of the motorcycle to the nearest Authorised Service Centre or for any loss due to non availability of the motorcycle during the period of examination and repairs by Royal Enfield and/or their Authorised Service Centre.

Royal Enfield will not be responsible for any penalties that may be charged by statutory authorities on account of failure to comply with the in-use emission standards.

The cost incurred to check emission of the motorcycle will have to be borne by the customer.

Emission warranty will be applicable irrespective of the change of ownership of the motorcycle provided all the conditions as laid down in this document are met from the date of original sale of the motorcycle.

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# EMISSION WARRANTY

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## THE WARRANTY SHALL APPLY IF THE CUSTOMER

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- Observes all the important instructions and any other precautions listed in the owner's manual.
- Under all circumstances uses lubricants and fuel as recommended by Royal Enfield.
- Regularly obtains and carries out maintenance in accordance with Royal Enfield guidelines and enters the details in the log book.
- Immediately approaches the nearest RE Authorised Dealer / Service Centre upon discovery of failure to comply with the emission standard in spite of having maintained and used the motorcycle in accordance with the instructions in the owner's manual and having carried out such repairs and adjustments as may be required with a view to establish such compliance.
- Production of a valid pollution under control certificate is necessary to claim emission warranty.
- Produces the owner's manual and log book for verification details.
- Produces receipts covering maintenance of the motorcycle as specified in the owner's manual from the date of original purchase of the motorcycle.
- Produces valid certificate of Insurance and RTO Registration Certificate (R.C. Book).

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# EMISSION WARRANTY

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## THE EMISSION WARRANTY SHALL NOT APPLY IF

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- A valid "Pollution under control" certificate is not produced.
- The motorcycle is not serviced by RE Authorised Dealer / Service Centre as per the service schedule described in the maintenance chart.
- The motorcycle has been subjected to abnormal use, abuse, neglect and improper maintenance or has met with an accident.
- Replacement parts not specified and approved by Royal Enfield have been used.
- The motorcycle, or parts there of, has been altered, tampered with or modified or replaced in an unauthorised manner.
- The odometer is not functioning or the odometer and / or its reading has been changed / tampered with, so that the actual distance covered cannot be readily determined.
- The motorcycle has been used for competitions, races and rallies or for the purpose of establishing records.
- On examination by Royal Enfield or its Authorised Dealer / Service Centre, if the motorcycle shows that any of the conditions stipulated in the owner's manual with regard to use and maintenance have been violated.
- The motorcycle has been run on adulterated / leaded fuel or lubricant other than those specified by Royal Enfield in the owner's manual or any other document given to the customer at the time of sale of the motorcycle.

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## **EMISSION WARRANTY**

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- The emission related components are tampered with.
- All service and parts related bills and vouchers incurred during the tenure of the emission warranty is not produced.
- All maintenance activities carried out on the motorcycle during the tenure of the emission warranty are not entered in the log book.

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### **TIPS TO BE ON THE RIGHT SIDE OF LAW**

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- Always get your motorcycle checked to meet the emission regulations through an authorised emission checking centre.
- Always carry a valid "Pollution Under Control" certificate with you, as and if applicable by law.

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### **TIPS TO REDUCE POLLUTION**

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- Ensure that the periodical maintenance is carried out as stipulated in the owner's manual through a Royal Enfield Authorised Service Centre.
- Use only unleaded petrol from reputed fuel pumps.
- Ensure the fuel used is not adulterated.
- Use correct spark plug as recommended in the owner's manual.
- Use lubricants as per recommendations given on grade / brand in the owner's manual.

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## **EVAPORATIVE EMISSION CONTROL SYSTEM WARRANTY**

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The following warranty applies to the evaporative emission control system.

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 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 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.

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

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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.
2. Replacing, 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 by Royal Enfield.
3. Loss of time, inconvenience, loss of motorcycle use or any other consequential loss or damages.
4. Any motorcycle in which the ODO meter 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 aging of parts such as fuel hoses, vapor hoses, gaskets and rubber components.

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### **RECOMMENDATIONS FOR REQUIRED MAINTENANCE**

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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 Authorised Royal Enfield Service Centre and using only genuine Royal Enfield spare parts.

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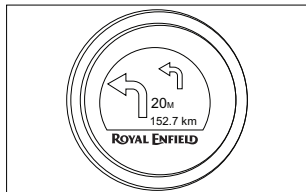
## **RADIO TYPE APPROVAL**

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### **TRIPPER/NAVIGATION DISPLAY UNIT**

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### **UNITED KINGDOM (UK)**

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### **EUROPEAN UNION (EU)**

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Max. RF power: 4 dBm and Operation frequency range:  
2408 to 2480 MHz

Hereby, Visteon Corporation declares that the radio equipment type JDCP is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: [www.visteon-docs.com](http://www.visteon-docs.com).

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## SERVICE/MAINTENANCE RECORD

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| S.No | Type of service | Schedule | Date | Job card No. | km | Dealer code | Brief details of service |
|------|-----------------|----------|------|--------------|----|-------------|--------------------------|
|      |                 |          |      |              |    |             |                          |
|      |                 |          |      |              |    |             |                          |
|      |                 |          |      |              |    |             |                          |
|      |                 |          |      |              |    |             |                          |
|      |                 |          |      |              |    |             |                          |
|      |                 |          |      |              |    |             |                          |
|      |                 |          |      |              |    |             |                          |
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# WIRING DIAGRAM

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## DISCLAIMER

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It is recommended that the wiring circuit repair and any other electrical rework should be performed only by an Authorized Royal Enfield Service Centre, failure to adhere this may cause damage to electrical systems and render the warranty of the products as void.





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## NOTES

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**Scan the below QR code to avail the soft copy of owner's manual as per your choice of language**





# ROYAL ENFIELD

ROYALENFIELD.COM

Part No. RAM00628/A



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