ROYAL ENFIELD OWNER'S MANUAL

INTERCEPTOR 650

BS VI

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FOREWORD

Congratulations. You now own a piece of history!

The Royal Enfield Interceptor is our heritage-inspired machine, built for the modern, intrepid traveller.

With your new machine, we mark the return of one of Royal Enfield's most loved classic motorcycles - the Interceptor.

Harking back to a time when all that mattered was that the Californian sun was out and the surf was up, this motorcycle retains the charm that made it legendary.

Designed to be simple and robust with solid and precise engineering, the Interceptor has been built to be your faithful companion on rides and adventures, big and small. Powered by our brand-new air-cooled 648 cc twin cylinder engine and robust twin cradle chassis developed at our state-of-the-art tech centre in the United Kingdom, we hope you enjoy riding your motorcycle as much as we enjoyed building it for you.

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 do avail of all the services at your nearest Authorised Service Centre to make sure that your motorcycle gets the right treatment which it so deserves. Please also read through the terms and conditions of warranty and other useful information in this manual before riding o ffinto the sunshine.

Keep riding pure.

For support and information please call 1800 210 0007 any time between 9 AM and 9 PM, any day of the week.

To know more about Royal Enfield, our products, and other news, go to www.royalenfield.com

NOTICE

All information in this manual is based on the latest product information available at the time of publication. Due to continuous improvements, there may be discrepancies between the information in this manual and your motorcycle.

Royal Enfield reserves the right to make production changes at any time without prior notice and without incurring any obligation to make the same or similar changes to motorcycle previously built or sold.

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

Disclaimer

- This model fitted with "tubeless tyre" is provided with an inner tube.
- Failure to use an inner tube in a spoked wheel will cause deflation of the tyre resulting in loss of motorcycle control.
- The approved tyres marked with "TUBELESS" are suitable for use with inner tube.

Part No. RAM00209/B / Qty. 1500 / Sep. 2021 / 10134

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SAFETY DEFINITIONS

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.

WARNING

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

CAUTION

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

NOTE

Indicates important and useful messages for better understanding.

PERSONAL AND MOTORCYCLE INFORMATION

Name																						
Door No./Street																						
Locality/Town																						
City													Country									
Contact	Res :												O ff:									
	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																						

SAFE RIDING TIPS / GUIDELINES

- 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.
  - ★ Refuel in a well ventilated area with the engine turned o ffcondition.
  - ★ Open the fuel filler cap slowly.
  - ★ 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 refuelling OR servicing the fuel system.

SAFE RIDING TIPS / GUIDELINES

★ DO NOT fill the 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.

WARNING

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

SAFE RIDING TIPS / GUIDELINES

NOTE

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 upsetting forces:

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

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.

SAFE RIDING TIPS / GUIDELINES

- 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 to instruct them on proper riding procedures.
- DO NOT allow other individuals, under any circumstances, to operate your motorcycle unless you know they are experienced, licensed riders and are thoroughly familiar with the operating conditions of your motorcycle.

WARNING

Regularly inspect shockabsorbers and front forks and look for leaks. Replace worn out parts. Worn out parts can adversely affect stability and handling.

WARNING

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.

SAFE RIDING TIPS / GUIDELINES

WARNING

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.

WARNING

Exhaust gas contains poisonous carbon monoxide and chemicals, known to cause cancer, birth defects or other reproductive defects.

WARNING

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.

SAFE RIDING TIPS / GUIDELINES

WARNING

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.

WARNING

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.

WARNING

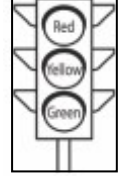
DO NOT pull a trailer behind a motorcycle. Towing a trailer may cause reduced braking efficiency, tyre overloading and unstable handling, as it may cause loss of control of the motorcycle in the front, leading to an accident.

RULES OF THE ROAD

- 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 centre line when meeting oncoming vehicles.

RULES OF THE ROAD

- 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 railroad crossings.
- When intending to turn, signal at least 100 ft (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.
- DO NOT leave the curb or parking area without signalling. Be sure your way is clear to enter moving traffic. A moving line of traffic always has the right-of-way.



RULES OF THE ROAD

- 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.

SIDE VIEW MIRRORS

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.

NOTE

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.

ACCESSORIES AND LUGGAGE

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 kmph / 70 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 centre 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.
- DO NOT exceed 6.6 pound (3 kg) maximum weight in each Royal Enfield Genuine motorcycle accessory pannier.
- 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 Royal Enfield Genuine Motorcycle Accessories which are model specific and follow installation procedure.

ACCESSORIES AND LUGGAGE

WARNING

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.

WARNING

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

WARNING

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

WARNING

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.

TECHNICAL SPECIFICATIONS

ENGINE

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	34.9 kW (47.4 PS) @ 7150 rpm
Max Torque	52.3 Nm @ 5150 rpm
Idle rpm	1200 ± 100 rpm
Starting	E-Start
Air filter element	Paper element
Lubrication	Forced lubrication, Wet sump with pump driven oil delivery
Gear Box	6 Speed Constant Mesh

TECHNICAL SPECIFICATIONS

Engine oil capacity	Dry Fill.....	3.9 l
	Refill.....	3.1 l
Engine oil grade.....		10W50 API SL (or higher), JASO MA2, SYNTHETIC such as ELF MOTO4 TECH 10W 50
Fuel Supply.....		Fuel Injection
Cooling.....		Air cooling

IGNITION SYSTEM

Ignition.....	Digital Spark ignition
Spark Plug.....	BOSCH UR5CC
Spark Plug Gap.....	0.7 mm to 0.8 mm

TECHNICAL SPECIFICATIONS

TRANSMISSION

Clutch	Wet multiplate
Primary drive	Gear
Primary ratio	2.051 : 1
Gear box	6 Speed Constant Mesh
Gear ratio	1st 2.615:1 2nd 1.813:1 3rd 1.429:1 4th 1.190:1 5th 1:040:1 6th 0:962:1
Secondary drive	Sprockets and Chain (5/8" Pitch)
Secondary ratio	2.533:1

TECHNICAL SPECIFICATIONS

CHASSIS

Frame		Steel Tubular, Double Cradle Frame
Suspension:	Front	41 mm Front Fork, 110 mm travel
	Rear	Single Coil-over Shocks, 88 mm travel
Hydraulic Disc Brakes		Front and Rear with ABS system.
	Front:	320 mm disc, ABS
	Rear:	240 mm disc, ABS
	ABS:	BOSCH 9.1
	Brakes:	Dual Channel ABS
Brake Fluid:	Grade:	DOT 4
	Capacity:	Front: 50 ml Rear: 100 ml
Tyre size:	Front	100/90-18 M/C 56H, CEAT ZOOM CRUZ F
	Rear	130/70-18 M/C 63H, CEAT ZOOM CRUZ

NOTE

The Imported Pirelli Tyres which are fitted in this motorcycle meet the requirements of BIS and that they comply with the requirements under the Central Motor Vehicles Rules (CMVR), 1989, would suffice;

TECHNICAL SPECIFICATIONS

Tyre Pressure:		
Solo	Front.....	32 psi/2.20 kg/cm²
	Rear.....	36 psi/2.53 kg/cm²
With Pillion	Front.....	32 psi/2.20 kg/cm²
	Rear.....	39 psi/2.74 kg/cm²
Steering Lock.....		Combination Lock
Fuel Type.....		Unleaded Gasoline
Ethanol content.....		E10 or less
Minimum Octane Rating.....		91 RON (Research Octane Number) or Higher
Induction.....		Fuel Injected
Fuel tank capacity.....		13.7* l
Low Fuel Warning.....		2.9* l
Dead Stock.....		0.75* l

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

TECHNICAL SPECIFICATIONS

ELECTRICALS

System	12 V - DC
Generation	Alternator
Alternator Output	156 W @ 1100 rpm
Battery	12 V - 12 Ah VRLA
Head lamp	12 V, H4 60/55 W
Brake/Tail lamp	12 V, P21/5 W (Halogen)
Turn signal	12 V, 10 W
Instrument Cluster	Digital Instrument Cluster with LCD
Horn	320 Hz Low and 420 Hz High Tone
Starter Motor	12 V, 0.8 kW

WARNING

Using bulbs / other electrical accessories other than specified rating may lead to over loading / erratic behaviour / premature failure of electrical system. Modifications on the motorcycle which are not approved by Royal Enfield may not only disqualify for warranty, but will also affects the performance of the motorcycle.

TECHNICAL SPECIFICATIONS

DIMENSIONS

Rake	24 degrees
Front Wheel	18 M/C x MT 2.50
Rear Wheel	18 M/C x MT 3.50
Length	2119 mm
Width	857 mm (with mirrors)
Height	1120 mm
Wheel base	1398 mm
Ground Clearance	174 mm

TECHNICAL SPECIFICATIONS

WEIGHTS

Kerb weight (90% Fuel and Oil).....	213 kg
Gross Vehicle Weight	400 kg

NOTE

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

RECOMMENDED LUBRICANTS

Engine Oil		
Grade	10W50 API SL (or higher), JASO MA2, SYNTHETIC such as ELF MOTO4 TECH 10W 50	
Capacity	1st Dry Fill : 3.9 l	Routine Oil Change : 3.1 l

Front Fork Oil	
Grade	2 W 25 HPCL
Capacity	473 ml / Fork

Brake Fluid	
Grade	DOT 4
Capacity	Front: 50 ml Rear: 100 ml

* DO NOT Mix DOT 4 or other brake fluids together.

Brake System
Dual Channel ABS

CAUTION

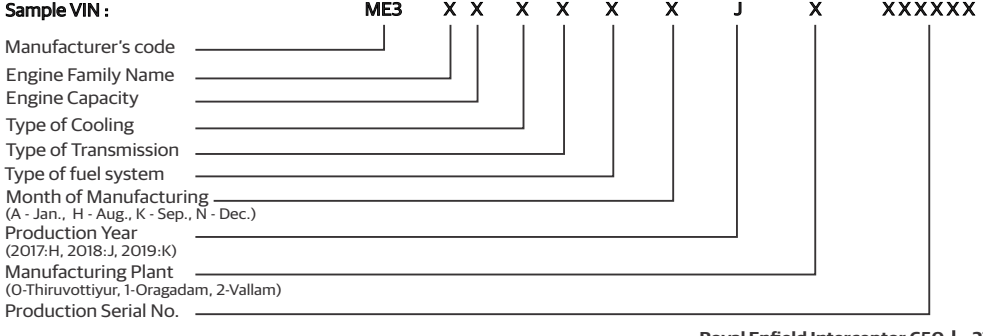
Use of wrong oil grade will reduce the life of the moving parts and seriously affect performance.

NOTE

Recommendation subject to change without notice.

MOTORCYCLE IDENTIFICATION NUMBERS

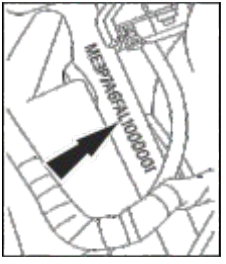
The VIN is a 17 digit number punched on the right side steering head tube in the form of label.



MOTORCYCLE IDENTIFICATION NUMBERS

CHASSIS NUMBER

Punched on the steering head tube right side.



CAUTION

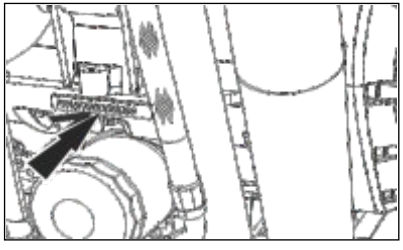
It is illegal to tamper with the VIN information label as it is the only means of identifications of the motorcycle.

ENGINE NUMBER - DETAILS

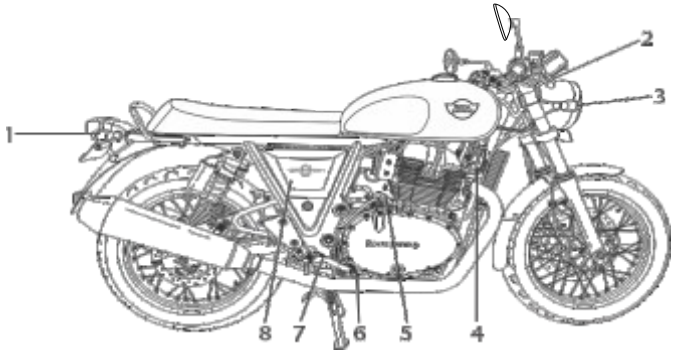
The engine number is punched above the oil filter location. it is the means of identification of the engine serial number and its production details. It is illegal to tamper with the engine number as it is the only means of identifications of the engine.

P 7 A 6 F K H 1 000086

- Engine Family
- Engine Capacity
- Type of Cooling
- Transmission
- Fuel Feed
- Production Month (A - Jan., H- Aug., K - Sep., N - Dec.)
- Year of Manufacturing (2017:H, 2018:J, 2019:K)
- Place of Manufacturing (0-Chennai, 1-Kanchipuram)
- Production Serial Nos.

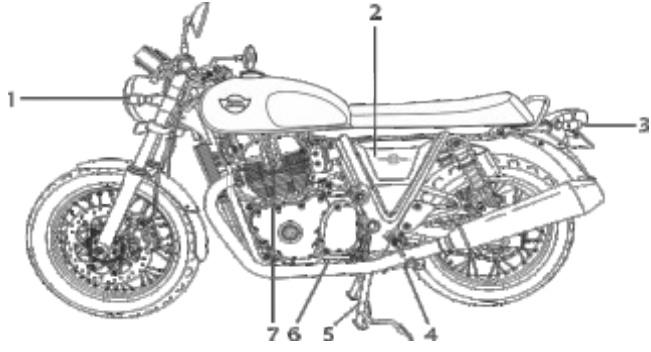


LOCATION OF KEY PARTS



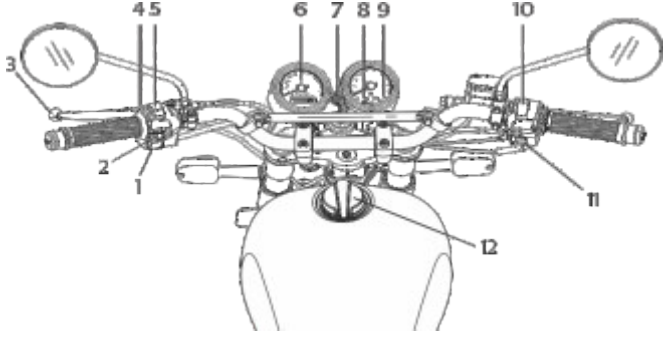
1. Right Trafficator Rear
2. Brake Lever Front
3. Right Trafficator Front
4. Horn
5. Starter Motor
6. Brake Pedal
7. Brake Lever Rear
8. Right Side Panel

LOCATION OF KEY PARTS



1. Left Trafficator Front
2. Left Side Panel
3. Left Trafficator Rear
4. Side Stand
5. Centre stand
6. Gear Change Pedal
7. Spark plug

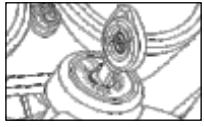
LOCATION OF KEY PARTS



1. Horn Button
2. Turn Signal Switch
3. Clutch Lever
4. Day Flash Switch
5. High Beam / Low Beam Switch
6. Instrument Cluster
7. Ignition Switch
8. Malfunction Indicator Lamp
9. RPM (Tacho) Meter
10. Engine Kill switch
11. Electric Start Switch
12. Fuel Tank Cap

OPERATION OF CONTROLS

IGNITION SWITCH



OFF: Steering unlock, ignition “OFF”

ON: Steering unlock, ignition “ON”

NOTE

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

STEERING LOCK

- Turn the handle bar to extreme left or right position.
- Push the key inside at “OFF” position, press and further turn to anticlockwise direction to lock the steering and remove the key.
- To unlock, insert the key in steering at lock position, and turn clockwise direction.

OPERATION OF CONTROLS

FUEL TANK CAP

- 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.

WARNING

- 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

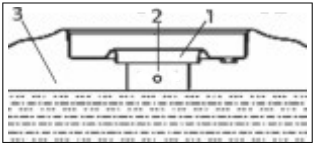
Gasoline vapour is highly explosive. Please ensure there are no open flames or sparks nearby while refueling and fill fuel only in a well ventilated area.

Please ensure gasoline does not spill on painted surfaces. In case fuel spills over the painted surfaces wipe it o ff immediately as it may leave a permanent stain.

Do not smoke while refueling or when fuel tank cap is open.

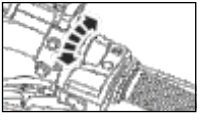
OPERATION OF CONTROLS

FUEL FILLING LEVEL



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

ENGINE KILL SWITCH



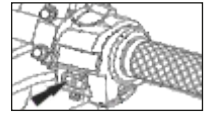
Engine "OFF" Engine "ON"

CAUTION

- Turn o ffignition switch when engine is not running. Failure to do so will discharge the battery due to the headlamp being continuously "ON".

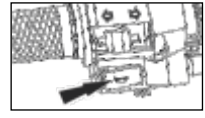
OPERATION OF CONTROLS

E-START SWITCH



Depress and hold untill engine starts for a maximum of 5 seconds.

HORN



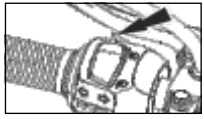
Press the horn button to sound horn.

HI BEAM / LOW BEAM SWITCH

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

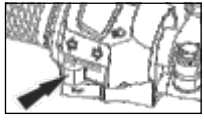
High beam Low beam

DAY FLASH



Press the switch for Day flash.

TURN SIGNAL SWITCH



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

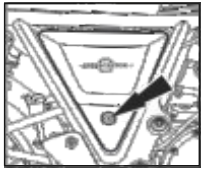
Push the button from “OFF” position to either left or right before turning as needed and restore to “OFF” position to stop blinking.

OPERATION OF CONTROLS

SIDE PANEL LEFT

- To access the left side panel remove the seat and retaining screw, pull and disengage the side panel from locater and gently remove the side panel.

SIDE PANEL RIGHT



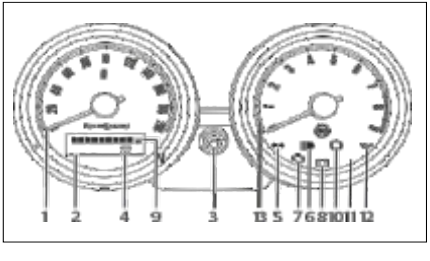
- Turn key clockwise to unlock the side panel.
- Pull the side panel along with key to gently remove the side panel.

OPERATION OF CONTROLS

INSTRUMENT CLUSTER

This instrument cluster consists of the following:

1. Speedometer
2. Odometer
3. Selection Button
4. Trip Meter 'A' and 'B'
5. Turn Signal Indicator
6. Hi beam Indicator
7. Engine Malfunction Indicator
8. Battery Low Voltage Indicator
9. Fuel Level Indicator
10. ABS Indicator

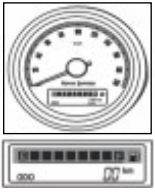


11. Neutral Indicator
12. Low Oil Pressure Indicator
13. Tachometer

OPERATION OF CONTROLS

1. SPEEDOMETER

The Speedometer indicates the speed at which motorcycle is travelling and has both kms/ miles calibration.



2. ODOMETER

The default display in the odometer is the total kms/miles, the motorcycle has covered.

NOTE

The last selection mode will be displayed whenever ignition is switched "ON".

WARNING

It is illegal to tamper with the odometer display or reset the total kms/miles, the motorcycle has covered.
It is illegal to ride the motorcycle after disconnecting the speed sensor of the motorcycle.

3. SELECTOR BUTTON

The selector knob will help to select between odometer, Trip 'A' or Trip 'B'.

4. TRIP METER 'A' AND 'B'

A light push for less than one second on the select button switch will change the display from odometer Trip 'A'. Again another press on the select button switch will change the display from Trip 'A' to Trip 'B'.

NOTE

1. Set the display as Trip 'A' or Trip 'B' as current mode.
2. Press the select button for more than 3 seconds.
3. Automatically the display will become zero.

WARNING

Do not attempt to change any setting while riding the motorcycle. It may cause loss of control leading to an accident.

5. TURN SIGNAL INDICATOR

Indicates that either the left or right indicators are "ON".

6. HI BEAM INDICATOR

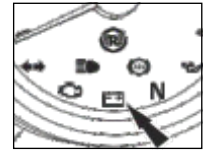
Indicates that the high beam head lamp is "ON".

7. ENGINE MALFUNCTION INDICATOR LAMP

A Malfunctioning indicator lamp (MIL) is provided in the tachometer.

When both the ignition and engine kill switch is in "ON" position and after vehicle is started, the MIL will glow for few seconds and switch "OFF" this indicates that all the functions of Electronic fuel injection (EFI) system is functioning normally. In the event of any malfunction in the EFI system MIL will glow continuously. It is recommended to take the motorcycle to a nearest Royal Enfield Authorised Service Centre for a detailed inspection and correction of EFI system.

8. BATTERY LOW VOLTAGE INDICATOR



When the ignition switch is turned in "ON" position, low voltage indicator symbol will glow. As soon as the engine is started the battery low voltage indicator turns "OFF" automatically.

In case the battery voltage is below 12 V and the battery is not charging when the engine is started, the battery low voltage indicator will continue to glow in the instrument cluster.

CAUTION

DO NOT ride the motorcycle if the battery low voltage indicator is glowing continuously and please get the charging system checked through an Royal Enfield Authorised Service Centre immediately.

WARNING INDICATIONS AND SAFETY SYSTEMS

Your motorcycle is fitted with the following warning indications and safety systems:

9. FUEL LEVEL INDICATOR

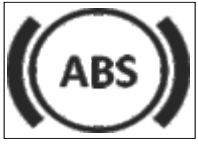
The fuel level indicator indicates the level of fuel in the fuel tank.

The display bars of the fuel meter fades towards the empty (E) when the fuel level decreases from full tank level (F).

The last bar of the fuel level indication in the instrument cluster will blink continuously when the fuel is less than 3 l (0.8 imperial gallon).

Please do not ride the motorcycle with the low fuel indication blinking continuously as it may not only result in the motorcycle running out of fuel, but will also cause serious damage to the fuel pump. Please refuel as soon as the low fuel indication starts blinking.

10. 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 continously 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 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

CAUTION (ABS)

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.

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 INDICATIONS AND SAFETY SYSTEMS

DO'S AND DON'TS : (ABS)

DO'S	DON'TS
■ While starting the engine do check the ABS indicator glows "ON" and turns "OFF" when the vehicle speed exceeds 5 kmph (3.1 mph). ■ Please check the brake fluid at "MAX" level in the front and rear brake reservoir and ensure there is no leak in the brake systems. ■ Apply both the brakes simultaneously for better efficiency. ■ 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.	■ 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. ■ DO NOT APPLY only the front OR rear brake as it can lead to inefficient braking.

WARNING INDICATIONS AND SAFETY SYSTEMS

11. NEUTRAL INDICATOR

This indicator glows when the vehicle is in neutral position.

12. LOW OIL PRESSURE INDICATOR

This indicator glows whenever the oil pressure is too low. When the ignition switch is in "ON" position with the engine not running condition the indicator goes off when the engine oil pressure is high enough / normal condition.

CAUTION

When the indicator glows continuously and if the engine speed is above idle, stop the vehicle immediately and get the engine inspected and corrected through a nearest Authorised Royal Enfield Service Centre. Failure to do so can cause engine damage.

13. TACHOMETER

This indicates the engine speed in rpm.

WARNING INDICATIONS AND SAFETY SYSTEMS

ROLL OVER SENSOR

In the event of motorcycle falling over on either of its sides with the engine running, the roll over sensor will disable both the ignition and fuel systems and switch “OFF” the engine. This is to prevent further damage to the motorcycle and the rider.

To reset the roll over sensor and reactivate the ignition and fuel systems.

- Ensure the motorcycle is parked upright on a firm surface.
- Ensure gear is in neutral position and the neutral lamp is glowing in the instrument cluster.
- Turn “OFF” ignition and switch “OFF” engine kill switch, wait for a few seconds and turn “ON” the Ignition and switch “ON” engine kill switch once again, to start the engine.

PRE OPERATIONAL CHECKS

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

1. Adequate fuel in the tank for the journey planned.
2. Tyres 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. Handle bar controls for smooth operation.
6. Engine oil level.
7. Wheel spokes for proper tightness and damage.
8. Headlamp, tail lamp, brake lamp and indicator lamps for proper functioning.
9. Proper functioning of all the warning lamps in the instrument cluster.

WARNING

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 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. It is recommended to use half clutch condition when commuting in the city traffic condition alone (Engine rpm around idling to 2000 rpm) 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).
5. Ride at proper speed and avoid sudden accelerations and braking.
6. Avoid riding motorcycle continuously for over an hour, it is recommended to take brief stop.

RUNNING IN PERIOD

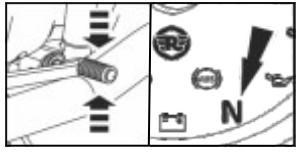
NOTE

The below table indicates the recommended engine speed in rpm for optimum performance of the engine.

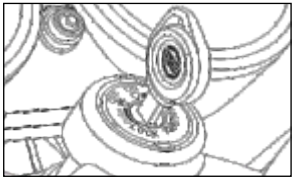
Distance Covered	Max. Engine Speed
0 to 500 km (0 to 300 miles)	4000 rpm
501 to 2000 km (300 to 1200 miles)	6000 rpm

STARTING

- 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.

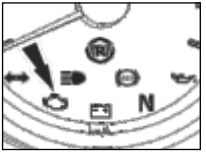


- Turn ignition key to “ON” position and engine kill switch on right hand side handle bar to “RUN” position ◯.



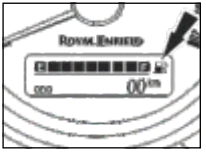
STARTING

- 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.



CAUTION

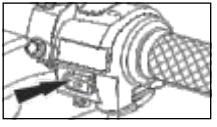
- In case the malfunction indicator DOES NOT turn "OFF", get the motorcycle checked through an Royal Enfield Authorised Service Centre for rectification.
- Check the fuel level indicator in the cluster for adequate fuel in the fuel tank. In case the last bar is blinking continuously, it indicates low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



STARTING

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

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



NOTE

In case the engine does not start within 5 sec, release starter switch and wait for about 5 sec before attempting to start the engine again.

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.

CAUTION

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 2 min 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.

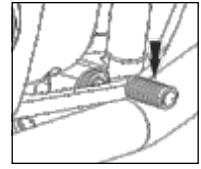
Accelerate only after the idling RPM has stabilised and it is consistent.

- Ensure side stand is in fully retracted position. Failure to do so will cause the engine to switch "OFF" as soon as gear is engaged.

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.

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 roughstart 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 1st gear.

  GEAR SHIFT PATTERN

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

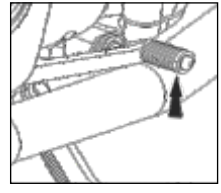
Recommended up shift speeds		
Gear Change	kmph	miles
1st - 2nd	25	16
2nd - 3rd	35	22
3rd - 4th	45	28
4th - 5th	60	38
5th - 6th	75	47

Recommended downshift speeds		
Gear Change	kmph	miles
6th - 5th	70	44
5th - 4th	55	34
4th - 3rd	40	25
3rd - 2nd	30	19
2nd - 1st	20	13

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.
- Lift gear shift lever up with toe to shift to 2nd and subsequent gears.
- As soon as the motorcycle reaches a speed of 25 kmph in 1st gear position, shift to 2nd gear and to higher gears as the speed of the motorcycle increases.



GEAR SHIFTING, RIDING AND STOPPING

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.

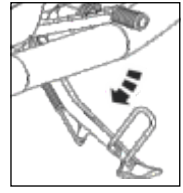
PARKING

PARKING MOTORCYCLE ON CENTRE STAND

- Select a firm, flat surface.
- Hold handle bar firmly in a straight position.
- Lower centre stand, such that, both the legs of the stand are resting on a firm ground.
- Apply pressure on the fulcrum lever on the centre 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

PARKING MOTORCYCLE ON SIDE STAND



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

WARNING

Ensure both stands are fully retracted before riding the motorcycle.

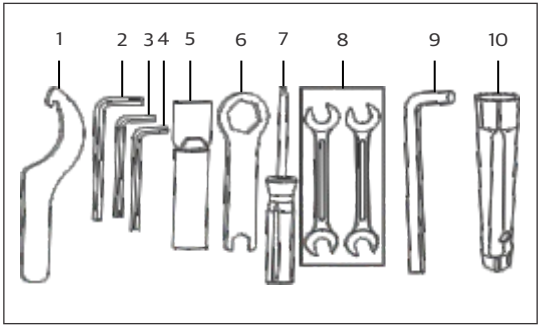
Please exercise extreme care while parking and ensure it is parked on a firm and flat surface to avoid the motorcycle from falling over and causing injury to you or to others and damage to the motorcycle parts.

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 in the right side panel of the motorcycle.

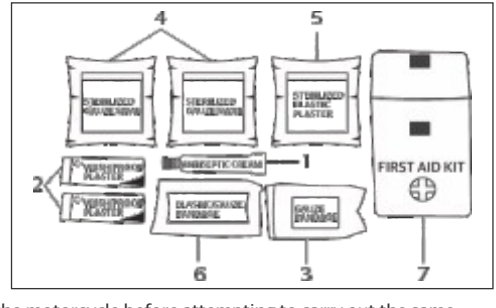
S.No.	Description	Qty.
1.	'C' Spanner	1
2.	Allen Key 6 mm	1
3.	Allen Key 5 mm	1
4.	Allen Key 4 mm	1
5.	Extension Tube	1
6.	Ring Spanner 24 x 14 Combination	1
7.	Screwdriver 06 x 160	1
8.	Double End Spanner 10 x 12	2
9	Tommy bar	1
10	Spark plug tool	1



FIRST AID KIT

A first aid kit is provided with the motorcycle for any emergency requirements.

S.No.	Description	Qty.
1.	Antiseptic cream 5 gms	1
2.	Wash proof plaster 1.9 cm x 7.2 cm	2
3.	Gauze Bandage 5 cm x 2 cm	1
4.	Sterilized Gauze Swab 5 cm x 5 cm	2
5.	Sterilized Elastic Plaster 7 cm x 6 cm	1
6.	Elastic Gauze Bandage 8 cm x 1 mtr.	1
7.	First aid kit pouch	1



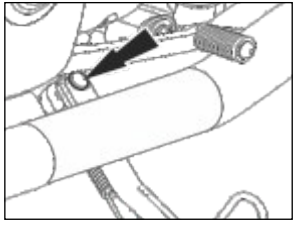
* Please familiarise yourself with the minor maintenance of the motorcycle before attempting to carry out the same.

MINOR MAINTENANCE TIPS

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

HAND LEVERS, CENTRE AND SIDE STAND PIVOTS

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



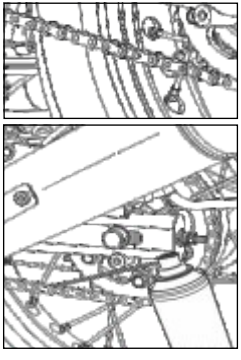
NOTE

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

MINOR MAINTENANCE TIPS

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.
- 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 o ffexcess chain lubricant after a few minutes with a clean cloth.



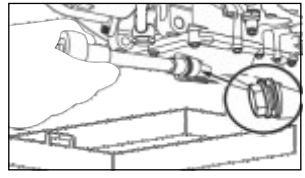
MINOR MAINTENANCE TIPS

ENGINE OIL LEVEL CHECKING

- Ensure vehicle is in center stand on ground level.
- Start the vehicle and gently raise it to approx. 3000 rpm only for 10 sec.
- Leave the vehicle in idling speed condition for 15 sec.
- Switch o ffthe engine and wait for 10 min 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 overfill above the "MAX" mark as it may affect the clutch function.

MINOR MAINTENANCE TIPS

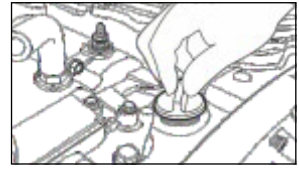
ENGINE OIL DRAINING



- Ensure vehicle is in center stand on ground level.
- Engine oil should always be drained when the engine is warmed up sufficiently so that the oil drains faster.
- Switch "OFF" ignition key and wait for 10 min for oil to settle down.
- Remove the oil drain bolt and wait for 5 min minimum till the engine oil drains completely.
- Drained engine oil quantity will be approx 2.2 l to 2.9 l (Oil drain quantity will vary depend on Kilometre covered).

MINOR MAINTENANCE TIPS

OIL FILLING DURING OIL SERVICE

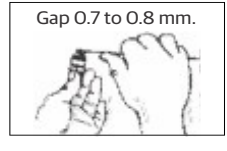


- Ensure vehicle is in center stand on ground level.
- Clean the oil filter joint face in crankcase and new oil filter to be assembled along with new rubber gasket.
- Clean the oil drain hole joint face in oil pan and drain bolt.
- New washer to be used. Assemble the drain bolt with the specified loctite.
- Remove the oil filler plug & clean the oil filler cap joint face in crankcase and filler plug.
- 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.
- Check the oil level as per oil level checking procedure given below.

MINOR MAINTENANCE TIPS

SPARK PLUG

CLEANING SPARK PLUG AND ADJUSTING GAP

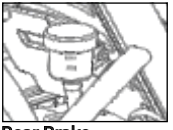


- Disconnect spark plug caps from the spark plugs.
- Locate spark plug spanner on the spark plug, loosen spark plug and remove it from cylinder head.
- Check spark plug for carbon deposits and centre electrodes for uneven wear.
- Clean spark plug by positioning it in a spark plug cleaning machine.
- Remove spark plug from the cleaning machine, check and set electrode gap between 0.7 to 0.8 mm.
- Position spark plug in the spark plug testing machine and check for proper functioning of the spark plug.
- 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.

MINOR MAINTENANCE TIPS

BRAKE FLUID FRONT AND REAR

Front Brake



Rear Brake

- Ensure motorcycle is upright on a firm flat surface on its center stand.
- Check brake fluid level in the window on front and rear reservoirs.
- The level is correct if the oil level is between the "MIN" and "MAX" marks.
- Open the reservoir cover and remove diaphragm carefully to top up the brake fluid.
- Top up only with DOT 4 brake fluid untill level is between "MIN" and "MAX" marks in the reservoir.
- Replace diaphragm correctly and close cover firmly.
- Wipe o ffany excess / spilled brake fluid immediately with a clean cloth.

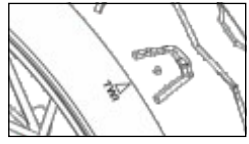
CAUTION

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 wet cloth to avoid damage to the affected part.

DO NOT mix different brake fluid grades. Use ONLY DOT 4 Brake fluid.

MINOR MAINTENANCE TIPS

INSPECTION OF TYRES AND WHEELS



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

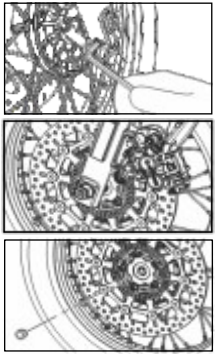
Minimum tread depth :	
Front tyre : 1 mm	Rear tyre : 2 mm

- Check and remove stone, splinters, nails or other particles embedded in the tyre treads.
- Periodically inspect wheels for spokes damage and wheel rim for wobbling or run out.
- Check uniform seating of the tyre beading on the rim whenever the tyre is reassembled.
- Use only recommended tyres and tubes, inflated to correct air pressure as given below.

	Front	Rear
Solo	32 psi/2.20 kg/cm2	36 psi/2.53 kg/cm2
With Pillion	32 psi/2.20 kg/cm2	39 psi/2.74 kg/cm2

MINOR MAINTENANCE TIPS

FRONT WHEEL REMOVAL



- Ensure motorcycle is upright on a firm and flat surface.
- Place a wooden block on the front end of engine to support the motorcycle and ensure front wheel is o ffthe ground by minimum 2 inch.
- From wiring harness RH side disconnect the speedo drive coupler.
- Loosen the pinch bolt on the front fork bottom right side.
- Remove the axle nut along with washer, hold the wheel axle on the right side and loosen hex nut on the left completely.
- Remove axle nut and washer from wheel axle.

- Tap and remove the front wheel spindle, gently tap axle from left side while supporting wheel at the bottom then remove axle from the right side.

CAUTION

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

- Slide out the front wheel 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 accidently pressed.
- Take care not to damage the front brake disc or tonering as it will affect the braking system and ABS.

FRONT WHEEL REASSEMBLY

- Remove the wooden piece / cardboard sheet placed between the brake pads.
- Locate speedo drive to its correct position on the right side.
- Locate stepped spacer to the wheel hub on left side.
- Insert the wheel along with speedo drive and spacer between the fork ends. Ensure the brake disc is located between the brake pads.
- Support front wheel at the bottom and ensure the mounting holes are aligned to insert the wheel axle along the right side fork end. Gently tap axle into wheel till the threaded portion of axle is fully visible on the left side fork end.
- Assemble washer and nut on axle.
- Hold the wheel axle firmly on right side and tighten axle nut firmly on right side to a torque of 70 Nm.
- Tighten pinch bolt completely on fork end to a torque of 25 Nm.

MINOR MAINTENANCE TIPS

- Rotate wheel to check for smooth rotation.
- Connect the speedo wire coupler and check for proper working of speedometer.
- Press brake lever and check front brake efficiency.

CAUTION

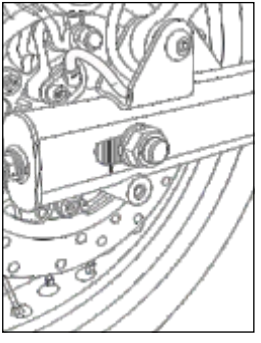
Please exercise utmost caution while reassembling the front wheel on the motorcycle.

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.

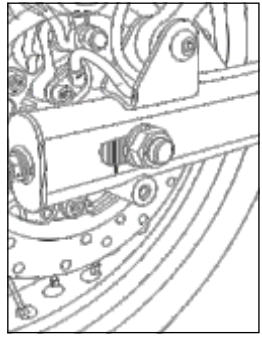
REAR WHEEL REMOVAL

- Ensure motorcycle is upright on a firm and flat surface with the rear wheel atleast 6 inch raised above from the surface.
- 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.
- Remove the nut and washer from the wheel spindle.
- Push rear wheel fully into the swing arm.



MINOR MAINTENANCE TIPS

- Support rear wheel from bottom and pull out wheel spindle from the left side swing arm from the clips on swing arm.
- Release the brake hose gently and remove caliper assembly from swing arm on right side.



CAUTION

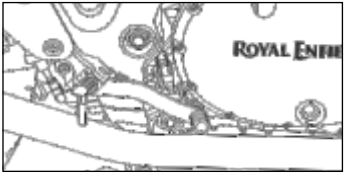
- Ensure brake hose does not get damaged or kinked while removing.
- Support caliper assembly suitably and away from swing arm.
- Release the chain from the sprocket and ensure it does not get jammed or damaged when removing rear wheel.
- Remove support from wheel bottom and gently slide out rear wheel from the swing arm with rear sprocket, brake disc and spacers.

MINOR MAINTENANCE TIPS

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.

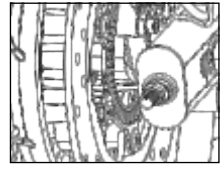


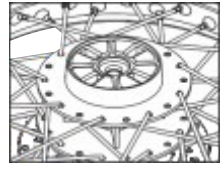
CAUTION

DO NOT pull up the rear brake pedal to lift or raise the motorcycle for any reason.

REAR WHEEL REASSEMBLY

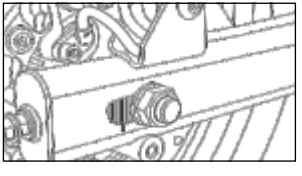
- Ensure that the long stepped spacer is located on the brake disc side and the short spacer is located on the sprocket side of the wheel hub firmly.
- Ensure that the chain adjuster are located properly inside the swing arm left and right sides.
- Locate caliper assembly on the tab along the swing arm 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 centre 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.
- Ensure that the long stepped spacer is located along the brake side and the short spacer is located along the sprocket side on the wheel hub.

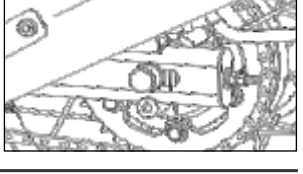




MINOR MAINTENANCE TIPS

- 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.





MINOR MAINTENANCE TIPS

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 brake hose in the clips along the swing arm right side.
- Check rear brake for proper operating efficiency.

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

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

- Check / adjust free play 2.5 to 3 mm at clutch lever pivot when handlebar is at LH condition.
- Ensure if the free play is 2.5 to 5 mm when handle bar is at center condition.

For adjustment follow below procedure:

NOTE

Clutch lever to be actuated 3 times before any measurement.

MINOR MAINTENANCE TIPS

MINOR ADJUSTMENT - CLUTCH CABLE LEVER END

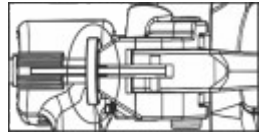
- Minor adjustment of free play can be done at clutch cable lever end.
- Loosen the cable outer lock nut.
- Turn the nut clockwise to reduce the play or anticlockwise to increasethe free play.
- Tighten firmly the lock nut after adjustment is done.
- After the adjustment, check the free play and confirm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

MAJOR ADJUSTMENT - CLUTCH CABLE COVER END

- Major adjustment of free play can be done at clutch cable cover 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 two spanners after adjustment is done.
- After the adjustment, check the free play and confirm for specification.

MINOR MAINTENANCE TIPS

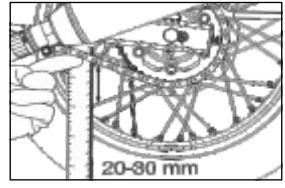
CAUTION



- 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.
- 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.

MINOR MAINTENANCE TIPS

DRIVE CHAIN TENSION (Free Play 20-30 mm)



- 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.

1. 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. Loosen the lock nut on the adjuster at both end of the swing arm.

c. To reduce the free play, tighten the adjuster nut on the adjuster evenly.

d. To increase the free play, loosen the adjuster nuts 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.

g. Hold spindle firmly to the left side and tighten rear hex nut to a torque of 70 Nm.

h. Tighten the adjuster locknut using a 24 mm spanner.

WARNING

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

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

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

MINOR MAINTENANCE TIPS

BATTERY AND MAINTENANCE

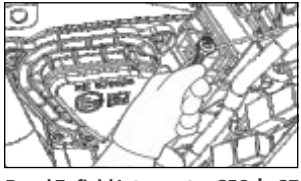
- The Motorcycle is provided with 12 V - 12 Ah battery.
- The battery must be periodically checked for cleanliness and corrosion free terminals.

NOTE

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

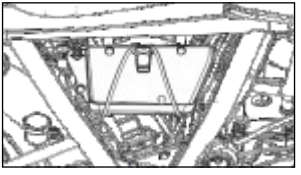
DISMANTLING

- Switch "OFF" the engine and remove ignition key from the key barrel.
- Disconnect battery negative (- ve) terminal bolt.

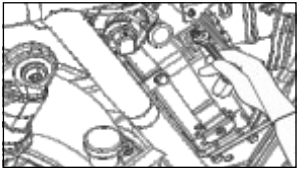


MINOR MAINTENANCE TIPS

- Remove 3 nos. hex head bolts from tool box to access the battery.



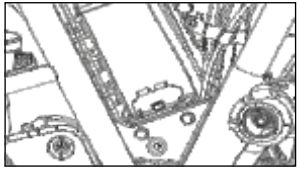
- Disconnect battery positive (+ve) terminal from battery.



MINOR MAINTENANCE TIPS

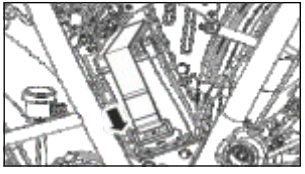
- Pull battery strap (belt) downwards and release strap lock from battery strap bracket.

- Loosen and remove hex flange head screw from battery strap bracket.

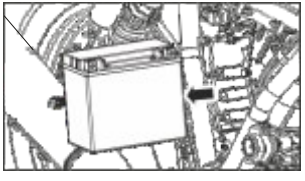


MINOR MAINTENANCE TIPS

- Remove battery strap bracket from battery tray.



- Remove battery from tray.



MINOR MAINTENANCE TIPS

WARNING

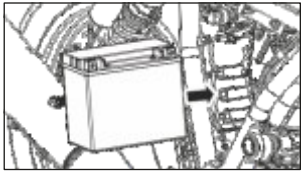
Always disconnect the black negative (-ve) battery cable first and then the red positive (+ve) cable while removing the battery connections.

NOTE

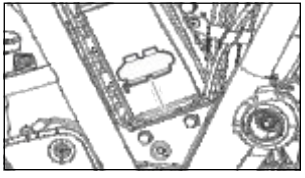
For checking the battery voltage contact Royal Enfield Authorised Service Centre or battery service centre.

ASSEMBLY

- Assemble battery into tray.

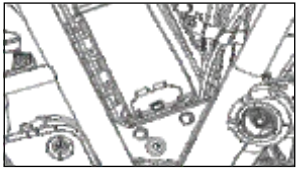


- Place battery strap bracket into battery tray.

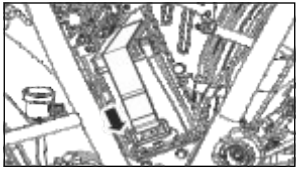


MINOR MAINTENANCE TIPS

- Locate and tighten flanged head screw into battery strap bracket.

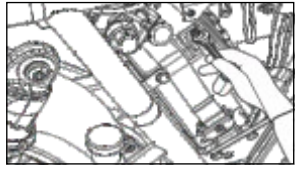


- Pull battery strap (belt) downwards to fix strap lock into battery strap bracket.

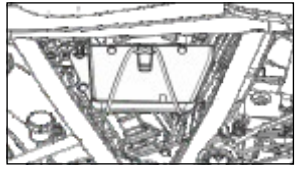


MINOR MAINTENANCE TIPS

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

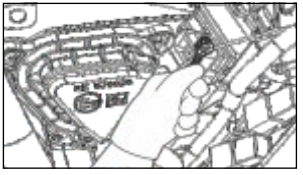


- Locate and tighten 3 nos. hex head bolts into tool holder.



MINOR MAINTENANCE TIPS

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



CAUTION

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

NOTE

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

CAUTION

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.

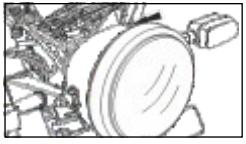
MINOR MAINTENANCE TIPS

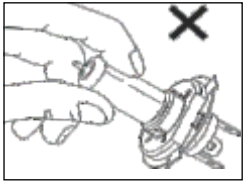
CHANGING ELECTRICAL COMPONENTS

HEADLAMP BULB REPLACEMENT

- Loosen the rim holding screw on top and take out the head lamp dome.
- Disconnect electrical connections.
- Thumb push and remove the bulb holding clamp gently.
- Remove the bulb using a clean and soft cloth.

- Position the new bulb inside the reflector such that the three projections on the bulb align with the slot on the reflector.
- Refit the bulb holding clamp.
- Connect the electrical connections.
- Position head lamp dome onto the head lamp shell and tighten the mounting screw on top.





NOTE

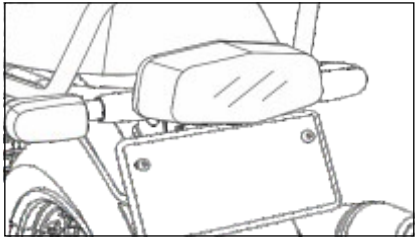
Never touch the bulb with your fingers. Finger prints will etch the glass and decrease bulb life apart from causing burns to your fingers.

Always hold the bulb with gloves and clean dry cloth during handling.

MINOR MAINTENANCE TIPS

TAIL LAMP BULB

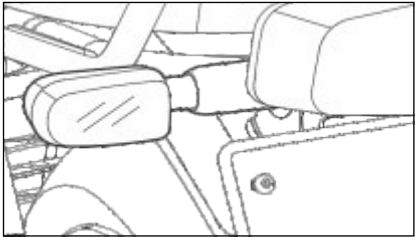
- Unlock the side panel RH.
- Remove the seat assembly by pulling seat lock cable.
- Remove the tail light cover by unscrewing its mounting screw.
- Hold the bulb, press inside and rotate anticlockwise to remove the tail light bulb from its holder using a clean cloth.
- Replace the bulb 12 V, 21 / 5 W using a soft clean cloth.
- Re-assemble the tail light in the reverse order of dismantling process.



MINOR MAINTENANCE TIPS

TRAFFICATOR BULB REPLACEMENT

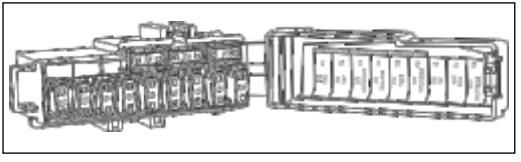
- Remove the screw from the trafficator housing.
- Open the indicator housing.
- Remove the bulb holder with help of a screw driver.
- Remove the bulb and replace the same using a soft and clean cloth.
- Refit the holder to its proper position.
- Fix the rubber gasket cover.
- Assemble the indicator housing cover.



MINOR MAINTENANCE TIPS

FUSE AND FUSE CARRIER

- The fuse carrier is located under the seat.
- Unlock side panel RH.
- Release seat lock by pulling knob and remove the seat.



WARNING

Electronic Control Unit (ECU) may fail due to loose electrical connections, loose battery terminals, etc. Hence, it is very important to keep all the electrical connections are intact.

MINI BLADE FUSE USAGE LIST

Fuse ID Number	Color	Rating	Remarks
1	V	30 A	Alternator
2	R-W	30 A	Main Fuse
3	G-W	15 A	Ignition Fuse-EFI
4	R	10 A	Signalling Fuse
5	BR	10 A	Horn Fuse

Fuse ID Number	Color	Rating	Remarks
6	R	15 A	Lighting Fuse (Head Lamp)
7	R-W	10 A	Accessory Fuse
8	R	10 A	ABS Fuse
9	R-W	25 A	ABS Fuse

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 will damage the complete electrical system.

MINOR MAINTENANCE TIPS

AIR FILTER

CLEAN AND REFIX : EVERY 5000 km

- Remove the screw from the side panel bottom side and remove side panel.
- Remove the air filter cover screws and then take out air filter box cover.
- Pull out filter element and check for dirt. Clean filter element carefully.

NOTE

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.

LONG TRIP PRECAUTIONS

CHECKS PRIOR TO THE COMMENCEMENT OF A LONG JOURNEY

- 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.

CHECKS AFTER EVERY 1500 km OF RUN

- 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.

LONG TRIP PRECAUTIONS

ITEMS TO BE CARRIED

- Tools Kit.
- First Aid Kit.
- Bulbs for headlight, trafficator light and mini blade fuses (10 and 15 A).
- Accelerator and clutch cable.
- Spark plug, spark plug cap.
- Spare tubes.

WASHING PROCEDURE

PRECAUTIONS

- Remove ignition key and seal the ignition key barrel slot using adhesive tape.
- Cover the silencer tail pipe, horn and control switches with suitable plastic bags and tie it 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, meter / cluster unit, flasher lights, front and rear wheel hubs, electrical connections and wires, control cables, EFI components, spark plug, battery, side panels.
- 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.

WASHING PROCEDURE

- If possible, use compressed air and blow o ffwater particles from the obscure areas of the motorcycle, electrical connections etc.
- Once the motorcycle has been ridden in salty conditions or near coastal areas it is recommended to wash your motorcycle with cold water. 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.

AFTER WASHING

- 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, centre 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.

STORAGE PRECAUTIONS

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 o ffexcess lubricant after 5 min of application.
- Remove battery from the motorcycle. Clean the terminals to free from corrosion and apply petroleum jelly to terminals and cover both them using a plastic sheet.
- 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.

TROUBLE SHOOTING

WARNING

The trouble shooting section of this Owner's Manual is intended solely as a guide for diagnosing problems. Carefully read the appropriate sections of this manual before performing any work, repair and maintenance operations not listed in this Owner's Manual should be performed by your Royal Enfield Authorised Service Centre only. Improper repair / maintenance will result in the motorcycle not functioning properly or serious injury.

WARNING

Please get the electrical system of your motorcycle checked thoroughly and get the faults corrected immediately after experiencing any fuse failure. Failure to comply can result into repeated fuse failures.

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

CAUSES	REMEDIES
I. ENGINE FAILS TO START	
1) Ignition switch in "OFF" position	Turn Ignition switch "ON".
2) Engine kill switch in "OFF" position	Kill switch to "ON" position.

* Contact Royal Enfield Authorised Service Centre

TROUBLE SHOOTING

CAUSES	REMEDIES
3) No fuel in fuel tank	Refill fuel.
4) Battery low voltage indicator is glowing continuously	Check battery for voltage / charging circuit.
5) Engine Malfunction indicator is glowing continuously	Get the motorcycle inspected through a Royal Enfield Authorised Service Centre.
6) Spark plug cap / lead not connected	Fix cap / lead firmly.
7) Spark plug electrode dirty / fouled	Clean spark plug
8) Spark plug insulation cracked	Replace spark plug.
9) Main or EFI fuse blown out	Replace with new fuse.

* Contact Royal Enfield Authorised Service Centre

TROUBLE SHOOTING

CAUSES	REMEDIES
II. ENGINE MISFIRING	
1) Loose spark plug cap	Fix cap firmly.
2) Spark plug fouled	Clean spark plug or non specified heat range plug.
3) Any sensor loose connections*	Check MAP or EOT or TPS sensor wiring / coupler loose connections.
4) Water in fuel tank*	Clean fuel tank. Fill tank with fresh petrol.
5) Engine starts but shuts of immediately	Check if the MIL indicator continuously is glowing; If yes*
6) Engine misfires and runs erratically	Check if the MIL indicator continuously is glowing; If yes*

* Contact Royal Enfield Authorised Service Centre

TROUBLE SHOOTING

CAUSES	REMEDIES
III. POOR PICKUP	
1) Brake pedal adjusted too tight	*Re-adjust properly, refer to respective section.
2) Choked air filter	Clean / Replace air filter.
3) Drive chain tight	*Re-adjust properly.
4) Under inflated tyres	*Inflate to correct pressure.
5) Accelerator cable free play excessive	Adjust accelerator cable free play.
6) Clutch slipping	*Adjust clutch cable free play.
7) Faulty fuel supply, fuel pump, filter / injector blocked	*Remove fuel pump and clean.
8) Poor pickup	Check if the MIL indicator is glowing; If yes*

* Contact Royal Enfield Authorised Service Centre

TROUBLE SHOOTING

CAUSES	REMEDIES
IV. ENGINE OVERHEATING	
1) Low engine oil level	Check and top-up if necessary.
2) Clutch slipping	*Check and correct.
3) Cylinder fins not clogged	Clean the cylinder fins at regular intervals.
V. EXCESSIVE FUEL CONSUMPTION	
1) Under inflated tyres	Inflate to correct pressure.
2) Choked air filter	Clean / Replace.
3) Fuel leakage	*Check and rectify, tank float unit, drain pipe, breather pipe, fuel line, pump, EVAP system.

* Contact Royal Enfield Authorised Service Centre

TROUBLE SHOOTING

CAUSES	REMEDIES
VI. BRAKES POOR	
1) Brake pad worn / Uneven wear	*Replace brake pads.
2) Oil / grease on disc.	*Clean and refit.
3) Spongy brake	Fill brake fluid and perform brake bleeding.
VII. MOTORCYCLE WOBBLES	
1) Under inflated tyres	Inflate to correct pressure.
2) Loose / Broken spokes	*Tighten / Replace spokes.
3) Wheels misaligned	*Ensure proper alignment.
4) Wheel rim runout	*Rectify.
5) Tyres not fitted correctly	*Refit tyres correctly.

* Contact Royal Enfield Authorised Service Centre

TROUBLE SHOOTING

CAUSES	REMEDIES
VIII. ELECTRICALS	
Bulbs do not glow	
1) Bulb fused	*Replace bulb.
2) Fuse blown	*Check and replace fuse.
3) Loose / improper connection	*Check and correct.
Horn not working	
1) Fuse blown	Check and correct.
2) Loose connections	Check and correct.
Trafficators not working	
1) Loose / improper connections	Check and correct.
2) Bulb fused	Replace.

* Contact Royal Enfield Authorised Service Centre

TROUBLE SHOOTING

CAUSES	REMEDIES
IX. ELECTRONIC FUEL INJECTION (EFI)	
Malfunctioning indicator lamp (MIL) glowing continuously	
1) Sensor coupler loose connection	*Check for all EFI sensor coupler loose connection and correct them.
2) Any EFI sensor failure	*Check and replace the same.
X. ABS (ANTI LOCK BRAKING SYSTEM)	
1) ABS indicator continuously "ON"	Take the vehicle to service centre for diagnosis.

* Contact Royal Enfield Authorised Service Centre

ENVIRONMENT CARE

BE AN ENVIRONMENTALLY CONSCIOUS RIDER

Swachh Bharat is Sachh Bharat. Being a Royal Enfield rider help the nation and the future generation for a cleaner environment.

Engine oil, oil filter, petrol, Battery, tyres, tubes, electrical & electronic parts replaced on your vehicle are to be disposed o ff in a proper way without polluting the environment. When your vehicle is attended in a Royal Enfield workshop our dealers do take care of that aspect. If you are getting it attended elsewhere please ensure that items are segregated and kept in a suitable container or bag without allowing them to get into soil, water or sewerage line, drains, water bodies like lake, canal, river. Sea etc. We strongly recommend that they are disposed off, in accordanceto the applicable law, through Pollution Control Board approved agencies in the locality.

ENVIRONMENT CARE

CLEANING OR WASHING YOUR ROYAL ENFIELD

Please ensure that the effluents are not discharged into the environment. Please promote dry washing which helps the nation to conserve water too.

This note does not constitute legal advice; please contact your local authorities or your nearest Royal Enfield Service Centre for further guidance.

PERIODICAL MAINTENANCE

The maintenance schedule detailed here will help you to maintain your interceptor INT 650 motorcycle meticulously to get a long trouble free service. The schedule provided herein is based upon an average riding conditions and indicates the km/miles 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 d riving 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.

Sl. No.	DESCRIPTION	PERIODICAL MAINTENANCE										
	km (x 1000)	0.5	5	10	15	20	25	30	35	40	45	50
	Months	1.5	6	12	18	24	30	36	42	48	54	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 element (#)	R		R		R		R		R		R
3	Inlet and Exhaust valve clearance (**)	I&A**		I&A**		I&A**		I&A**		I&A**		I&A**
4	Spark plug	I	I	I	I	R	I	I	I	R	I	I
5	HT lead for crack	I	I	I	I	I	I	I	I	I	I	I

I - Inspect (Clean, Adjust, lubricate or replace if necessary) **L** - Lubricate **R** - Replace **C** - Clean

(#) - After First service, Engine oil and Engine oil filter replacement is a mandatory at every 12 months even the vehicle has not covered the specified kms.

(**)- After First service, Valve clearance adjustment is a mandatory at every 12 months even the vehicle has not covered the specified kms.

PERIODICAL MAINTENANCE

Sl. No.	DESCRIPTION	PERIODICAL MAINTENANCE										
	km (x 1000)	0.5	5	10	15	20	25	30	35	40	45	50
	Months	1.5	6	12	18	24	30	36	42	48	54	60
6	Rubber hose, Air filter to Throttle body	I	I	I	I	I	I	I	I	I	I	I
7	Rubber hose, Inlet manifold / Adaptor	I	I	I	I	I	I	I	I	I	I	I
8	Evaporative Emission Equipment rubber hoses	I	I	I	I	I	I	I	I	I	I	I
9	Fuel filter - External					R				R		
10	Air filter element	C	C	R	C	R	C	R	C	R	C	R
		Clean/replace more frequently if operated in dusty condition										
11	Vent Pipe under air filter box	I	I	I	I	I	I	I	I	I		I
12	Accelerator and Throttle pulley cables free play	A	A	A	A	A	A	A	A	A	A	A
13	Clutch Cable / lever free play	Adjust every 1000 km or earlier as required										
14	Hand levers pivot point	Lubricate every 1000 km or earlier as required										

I - Inspect (Clean, Adjust, lubricate or replace if necessary) **L** - Lubricate **R** - Replace **C** - Clean

(#) - After First service, Engine oil and Engine oil filter replacement is a mandatory at every 12 months even the vehicle has not covered the specified kms.

(**)- After First service, Valve clearance adjustment is a mandatory at every 12 months even the vehicle has not covered the specified kms.

PERIODICAL MAINTENANCE

Sl. No.	DESCRIPTION	PERIODICAL MAINTENANCE										
	km (x 1000)	0.5	5	10	15	20	25	30	35	40	45	50
	Months	1.5	6	12	18	24	30	36	42	48	54	60
15	Brake pads - Front and Rear	I	I	I	I	I	I	I	I	I	I	I
16	Disc Brake fluid level - Front and Rear	I	I	I	I	R	I	I	I	R	I	I
17	Rear brake pedal and Gear change pedal pivot	L	L	L	L	L	L	L	L	L	L	L
18	Brake hose and Banjo Bolt - Front and Rear	I	I	I	I	I	I	I	I	I	I	I
19	Front Fork oil leak	I	I	I	I	I	I	I	I	I	I	I
		Replace oil at every 60000 km or any work carried out whichever is earlier										
20	Steering tapper roller bearing Play	I	I	I	I	I	I	I	I	I	I	I
21	Rear Wheel Drive Chain	Lubricate and Adjust every 1000 km / Clean, Lubricate and Adjust every service or earlier as required										
22	Rear wheel Cush rubbers				I				I			
23	Spokes tightness / Wheel rim run out front and rear	I	I	I	I	I	I	I	I	I	I	I

I - Inspect (Clean, Adjust, lubricate or replace if necessary) **L** - Lubricate **R** - Replace **C** - Clean

(#) - After First service, Engine oil and Engine oil filter replacement is a mandatory at every 12 months even the vehicle has not covered the specified kms.

(**)- After First service, Valve clearance adjustment is a mandatory at every 12 months even the vehicle has not covered the specified kms.

PERIODICAL MAINTENANCE

Sl. No.	DESCRIPTION	PERIODICAL MAINTENANCE										
	km (x 1000)	0.5	5	10	15	20	25	30	35	40	45	50
	Months	1.5	6	12	18	24	30	36	42	48	54	60
24	Battery terminals (apply petroleum jelly)	C	C	C	C	C	C	C	C	C	C	C
25	Battery electrolyte levels (Not applicable for sealed battery)	I	I	I	I	I	I	I	I	I	I	I
26	Earth wire eyelet tightness			I		I		I		I		I
27	Tyre wear pattern front and rear	I	I	I	I	I	I	I	I	I	I	I
28	Pivot-Side Stand, Center Stand	L	L	L	L	L	L	L	L	L	L	L
29	Rider and Pillion Foot rest pivot	L	L	L	L	L	L	L	L	L	L	L
30	All mounting fasteners in vehicle for tightness	I	I	I	I	I	I	I	I	I	I	I

I - Inspect (Clean, Adjust, lubricate or replace if necessary) **L** - Lubricate **R** - Replace **C** - Clean

(#) - After First service, Engine oil and Engine oil filter replacement is a mandatory at every 12 months even the vehicle has not covered the specified kms.

(**)- After First service, Valve clearance adjustment is a mandatory at every 12 months even the vehicle has not covered the specified kms.

NOTE

For Maintenance after 50,000 km, Please repeat the same frequency specified above, in consultation with a Royal Enfield Authorised Dealer / Service Centre.

WARRANTY TERMS AND CONDITIONS

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. RE will replace or repair defective part(s) at their Dealerships and Authorised Service Centre, free of charge within a period of 36 months / 40,000 km from the date of sale, whichever is earlier.
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 4 free services & 3 paid services are availed in the respective period / kilometer ranges as per the schedule in the owner's manual from RE Authorised Dealer / Service Centre.

WARRANTY TERMS AND CONDITIONS

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. Cost of oil, oil filter and fuel are chargeable to the customer.

6. Claims on proprietary items like tyres, tubes, 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 preferring such claims on the respective manufacturer.

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.

WARRANTY TERMS AND CONDITIONS

(b) Components like fuel filter, oil filter, Air filter paper element, control cables, brake shoes / brake pads, clutch, drive chain & sprocket kit, Steering ball races, Electrical equipment, wiring harness etc., which are subjected to normal wear and tear.

(c) Failures occurred due to use of non recommended grade lubricants, fuel or improper level.

(d) Damages due to use of non-genuine parts, lack of proper maintenance, incorrect riding habits.

(e) Parts damaged due to accidents, collision, abuse etc.

(f) 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 shockabsorber etc.

(g) Warranty is not applicable for discoloration of Exhaust Pipe & Silencer, as it is a natural process that will happen during usage.

(h) Defects arising from fitment of unauthorised or additional electrical loads.

(i) Motorcycle serviced or repaired at unauthorised service centres.

(j) Motorcycle used for competitions / racing / Stage Rallying etc.

(k) Electrical component like bulbs, fuses etc. and electronic components failure including ECU due to repairs by arc welding.

(l) Motorcycle found with tampering / drilling / welding mark on any part of the Frame.

(m) Normal maintenance operations like adjustment of brakes, cleaning fuel system, engine tune-up and other such adjustments.

(n) Oxidization of buffed / painted / powder coated items etc.

8. RE reserves the right to finally decide on all warranty claims.

9. RE reserves the right to make changes in design of the motorcycle without any obligation to install these changes on previously supplied motorcycles.

EMISSION WARRANTY

In compliance with the provisions of Rule 115(2) of the Central Motor Motorcycle Rules, 1989, 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.

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.

EMISSION WARRANTY

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.

EMISSION WARRANTY

THE WARRANTY SHALL APPLY IF THE CUSTOMER

- 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 inspite 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.

EMISSION WARRANTY

- Produces the owner's manual and Log book for verification details.
- Produces receipts covering maintenance of the motorcycle is specified in the owner's manual from the date of original purchase of the motorcycle.
- Produces valid certificate of Insurance and R T O Registration Certificate (R.C. Book).

THE EMISSION WARRANTY SHALL NOT APPLY IF

- 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.

EMISSION WARRANTY

- 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.
- 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.

EMISSION WARRANTY

TIPS TO BE ON THE RIGHT SIDE OF LAW

- 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.

TIPS TO REDUCE POLLUTION

- 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 (91 RON or higher) 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.

EVAPORATIVE EMISSION CONTROL SYSTEM WARRANTY

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.

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

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

EVAPORATIVE EMISSION CONTROL SYSTEM WARRANTY

3. Loss of time, inconvenience, loss of motorcycle use or any other consequential loss or damages.
4. Any motorcycle in which the Odometer has been tampered with OR the speedo cable has been disconnected for any reason OR is broken and not replaced immediately, due to which the exact distance covered cannot be determined.
5. Normal aging of parts such as fuel hoses, vapor hoses, gaskets and rubber components.

RECOMMENDATIONS FOR REQUIRED MAINTENANCE

It is recommended that the routine maintenance of the motorcycle be carried out at specified intervals and any maintenance to the evaporative emission control systems should be performed only by an Authorised Royal Enfield Service Centre and using only genuine Royal Enfield spare parts.

SERVICE / MAINTENANCE RECORD

S.No.	Type of Service	Schedule	Date	Job Card No.	km	Dealer Code	Brief Details of Service
1.	1st Free Service*	500 km / 45 Days					
2.	2nd Free Service*	5,000 km /6 Months					
3.	3rd Free Service*	10,000 km / 12 Months					
4.	4th Free Service*	15,000 km / 18 Months					

NOTE

Cost of parts, lubricants, filters and other consumables are chargeable to the customer on their respective service activities. Refer the Periodic maintenance Chart for the respective service activities.

* Labour is free for this services alone.

NOTES

Royal Enfield recommended lubricants

Royal Enfield recommended add ons to maintain your vehicle.

ROYAL ENFIELD

Part No. RAM00209/B

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