

**ROYAL
ENFIELD
OWNER'S
MANUAL**

SCRAM411

USA / CALIFORNIA

FOREWORD

READY. SET. SCRAM.

Conceived on our LS410 platform, SCRAM is a scrambler with an off-road pedigree. Bold & Playful - Lively & Engaging, it is nimble to ride, from trails to alleyways. Always ready for what comes next; without a second thought. Living life on an instinct, spontaneous & restless SCRAM 411 is all-ready to take it on.

While the Scram is all-ready, this Owner's Manual prepares you to be ready before you set out to Scram. It thoroughly covers features, capability, operation of the controls and quick fixes. For the best health and performance of your motorcycle, we highly recommend that you maintain it as per the schedule and procedures described in this manual. It should be considered a permanent part of your motorcycle and should always be stored in it, even if it is subsequently sold.

—Team Royal Enfield

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 motorcycles previously built or sold.

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

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Disclaimer

Following precautions are to be taken, to ensure longer paint life of your motorcycle.

- Applicable for all matt finish motorcycles as it will increase the gloss level.
- Wash the painted parts only with plain water and do not use any strong solvents cleaning agents or detergents.
- Scratches, if happens on the matt finish parts cannot be touched up and corrected/removed.
- Warranty is not applicable for any matt finished painted parts of the motorcycle.
- The heat resistance coated components such as silencer pipe, exhaust etc., shall not be wiped clean with oiled cloth as it can generate smoke when the vehicle is driven and also leave patch marks

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IMPORTANT

United States Environment Protection laws, Federal Motor Vehicle Safety Standards and California Air Resources Board (Applicable only for motorcycles sold within the state of California.) strictly prohibits tampering with the Exhaust Emission Control, Noise Control and Evaporative Emission Control systems:

We would like to emphasize that any repairs to the induction, emission, exhaust and evaporative systems must be performed only by a Royal Enfield Authorised Dealer so that the motorcycle confirms to the United States Environment Protection laws, Federal Motor Vehicle Safety Standards and California Air Resources Board regulation (Applicable only for motorcycles sold within the state of California.)

It is the responsibility of the Owner/User of the motorcycle to read this manual carefully and to comply with the safety guidelines, operating instructions, and periodical maintenance instructions given here. Keep this manual in a convenient place for easy reference. Do not use the motorcycle until you have become familiar with this motorcycle and after reading and understanding this manual completely. In case you need any further clarifications, please contact a Royal Enfield Authorised Dealer, nearest to you, for assistance.

If your motorcycle is being used by a friend, relative, or any other person, it is your responsibility to make certain that they have completely understood the operating procedures of the motorcycle, and the contents in this manual with particular reference to the safety aspects, before riding your motorcycle.

The motorcycle is designed for normal on road use only. Operation in off-road usage in some areas may be illegal and could be dangerous. Please obey local laws and regulations.

In the event of your motorcycle being sold to another person, it is your responsibility to handover this manual along with the motorcycle to the new owner.

REPORTING SAFETY DEFECTS

If you believe your motorcycle has a defect which could cause a crash and result in serious injury or loss of life, you should immediately contact the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Royal Enfield North America Limited, 226 N Water St., Milwaukee WI 53202 US.

If NHTSA receives similar complaints, it may open an investigation and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in any individual problems between you, and your dealer or Royal Enfield North America Limited.

To contact NHTSA you may call the Auto Safety Hotline toll-free within the United States on 1-800-424-9393 or write to: NHTSA, 400 Seventh Street SW, Washington, DC 20590. You can also obtain other information about motor vehicle safety from the hotline.

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SAFETY DEFINITIONS

Statements in this manual preceded by the following words are of special significance :



WARNING

Indicates a potentially hazardous situation, which if not avoided, could result in an accident causing serious injury or loss of life.

CAUTION

Caution with the safety alert symbol, indicates a potentially hazardous situation, which if not avoided, may result in minor or moderate injury leading to disability.

CAUTION

Caution without the safety alert symbol indicates a potentially hazardous situation, which if not avoided, may result in damage to the motorcycle and its rider, property etc.

All images in this manual are only for reference and to explain the relevance. They may not be exactly the same in the motorcycle you own. Technical specifications are subject to change without prior notice.

PERSONAL & MOTOR CYCLE INFORMATION

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

SAFE OPERATING RULES

Royal Enfield motorcycle are designed to serve as a means of personal transport, and for on-road use only. It is not meant to be used as an off-road motorcycle.

WARNING

Using the motorcycle for off-road purpose could lead to loss of control which could result in an accident causing serious injury or loss of life.

1. Before operating your new motorcycle, it is your responsibility to carefully read and follow the operation and maintenance instructions detailed in this manual for your own safety, your motorcycle and that of others.
2. Know and respect the rules of the road. Be a safe rider for your own safety and for other road users.

3. Before starting the motorcycle, check for proper operation of brakes, clutch, gear shifter, handle bar controls, tire pressure, fuel and oil levels.

FUEL/REFUELING

Royal Enfield motorcycles are designed to perform best with unleaded gasoline only. Use a good quality unleaded gasoline of 87 RON or higher/If 'knocking' or 'pinging' occurs at a steady engine speed under normal load, use a different brand of gasoline or gasoline which has a higher octane rating.

WARNING

Royal Enfield cautions you against the use of certain non standard parts such as aftermarket and custom made extended front forks or suspensions, which may adversely affect performance and handling.

SAFE OPERATING RULES

Removing or altering original parts may adversely affect performance and could result in an accident causing serious injury.

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



WARNING

Do not use-leaded gasoline in this motorcycle. It will cause serious damage to the internals of the engine, exhaust emission system and the motorcycle will not meet the emission norms. Using leaded gasoline will also render the warranty void.

It is illegal to use leaded gasoline as it is known to cause serious health problems.

Fuels containing methanol should not be used as it can cause damage to the fuel system components.

- Whenever refueling your motorcycle, please exercise utmost caution and carefully observe the following rules:
 - ★ Turn the ignition switch to the 'OFF' position.
 - ★ Open the fuel filler cap slowly. This will help to release any pressure that may have built up in the fuel tank.
 - ★ Do not smoke and please ensure that there are no open flames or sparks near the motorcycle, when refuelling or servicing the fuel system.
 - ★ Switch OFF mobile phones and other hand held electronic devices.

SAFE OPERATING RULES

- ★ Open the fuel filler cap slowly.
- ★ Refuel in a well ventilated area with the engine turned off.
- ★ Do not use a mobile telephone. Switch OFF mobile telephones and any other electrical and electronic devices including any appliances with a pilot light.
- ★ Do not fill the tank to its brim. Please fill fuel only till the bottom of the filler neck insert, so as to leave air space in the fuel tank to allow for fuel expansion.
- ★ Avoid filling the tank in rainy or dusty conditions where airborne material can contaminate the fuel contaminated fuel may cause damage to fuel system components.
- ★ After refueling, please ensure the fuel filler cap is closed firmly and correctly



WARNING

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



WARNING

Fuel spilled on the floor or on motorcycle tires will reduce the tire's ability to grip the road. This can result in dangerous riding condition, potentially causing loss of control and could result in an accident if fuel is spilled, thoroughly clean up the spillage immediately, Take care not to spill any fuel on the engine, exhaust pipes, rubber parts or any other part of the motorcycle.

SAFE OPERATING RULES

Do not store motorcycle with gasoline in the tank, within your home or garage where open flames, pilot lights, spark or any appliance with a pilot light, electric motors are present. Inadequate safety precautions could cause an explosion or fire and could result in damage to property, serious injury or loss of life.

TIRES & SUSPENSION

Please inspect and ensure tires are seated evenly & properly in the rims, maintain the recommended tire pressures it is very important for riding stability. Pay strict attention to loose and/or broken spokes ensure the front and rear wheels are correctly aligned. Check spokes for correct tightness in the rims and free movement of steering system.

Inspect the tires thread condition periodically and replace worn out tires with approved make only. Failure to do so can lead to improper balance, poor stability, poor handling, and abnormal tread wear.

Please replace tires which are punctured or damaged. Small punctures in the tread area may be repaired from within the tire. The motorcycle should not be driven over 40 mph (60 kmph) for the first 24 hours and over 55 mph (90 Kmph) thereafter with a repaired tire.



WARNING

In emergency situations, please ride slowly with least possible load until the tire is permanently repaired or replaced. Failure to heed to this warning could result in serious injury or loss of life.

Regularly inspect front forks, rear shock absorbers and rear suspensions, for any war, looseness/side play, oil leaks etc. Replace worn parts. Worn parts can adversely affect stability and handling.

SAFE OPERATING RULES

WARNING

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

1. A new motorcycle must be operated according to the special break-in-procedure. See break-in-the first 300 miles (500 km) section. Know and respect the rules of the road. Be a safe rider for your own safety and for other road users.
2. 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.

3. Do not exceed the legal speed limit or drive too fast for existing conditions. Always reduce speed when poor driving conditions exist. High speed increase the influence of any other condition affecting stability and increases the possibility of loss of control.

NOTE

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

SAFE OPERATING RULES

WARNING

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

- Do not exceed 70 mph (110 km/h) riding solo.
- Do not exceed 55 mph (90 Km/h) when carrying a passenger or cargo.

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

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

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

- Operate your motorcycle defensively. Remember, a motorcycle does not afford the same protection as an automobile in an accident. One of the most common accident situations occurs when the driver of the other motorcycle fails to see or recognize a motorcycle and turns into the oncoming motorcyclist.
- Safe motorcycle operation requires alert mental judgement combined with a defensive driving attitude. Do not allow fatigue, alcohol or drugs to endanger your safety or that of others.

SAFE OPERATING RULES

- Wear an approved helmet, clothing, and foot gear suited for riding a motorcycle. Bright or light colors are best for greater visibility in traffic, especially at night. Avoid loose, flowing garments and scarves.
- When carrying a pillion rider, it is your responsibility to instruct them on proper riding procedures.
- Do not allow other individuals, under any circumstances, to operate your motorcycle unless you know they are experienced, licensed riders and are thoroughly familiar with the operating conditions of your motorcycle.
- Additional electrical accessories and equipments may overload the motorcycle's electrical system and will result in system and/or component failure.
- Maintain your motorcycle in proper operating condition in accordance with the maintenance intervals chart in this Owner's Manual.
- Use only genuine Royal Enfield spare parts and approved accessories. Use of other manufacturer's performance parts may affect the performance of your motorcycle void of warranty. Contact your Royal Enfield Authorised Dealer for further details.



WARNING

Maintain the recommended tire pressure ensure the front and rear wheels are correctly aligned and the tires are seated evenly & properly in the rims. Check for correct tightness of the spokes in the rims. Inspect your tires periodically and replace tires with approved tires only.

SAFE OPERATING RULES

Failure to do so can lead to improper balance, abnormal tread wear, poor handling and could result in serious injury.

 **WARNING**

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

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

Failure to heed this warning could result in serious injury.

- Safe motorcycle operation required alert mental judgement combined with a defensive driving attitude. Do not allow fatigue, alcohol or drugs to endanger your safety or that of others.
- Maintain your motorcycle in proper operating condition in accordance with the maintenance intervals chart in this Owner's Manual. Particularly important to motorcycle stability is proper tire inflation pressure, tread condition. Pay strict attention to loose and/or broken spokes, free movement of steering system.

 **WARNING**

Do not operate motorcycle with a loose, worn or damaged steering system, including the front and rear suspension system.

SAFE OPERATING RULES

Contact your Royal Enfield Authorised Dealer for repair of steering or suspension system. Damaged steering or suspension components may adversely affect handling which could result in serious injury.

 **WARNING**

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

 **WARNING**

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

 **WARNING**

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

 **WARNING**

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

Do not inhale exhaust gases. Never stand close to the exhaust system of the motorcycle when the engine is running.

Do not stay inside a closed garage after parking the motorcycle as the residual fumes from the exhaust can contain harmful gases .

SAFE OPERATING RULES

Failure to heed to these warnings can result in loss of life.



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

This motorcycle is not designed to tow a trailer or be used with a side car. It is designed to be used as a two wheeler, for carrying a rider and a pillion.



Towing a trailer may cause loss of control of the motorcycle in the front, reduced braking efficiency, tire overloading and unstable

handling, leading to an accident resulting in serious injury or loss of life. Using the motorcycle with a side car could cause loss of control, resulting in an accident which may cause serious injury or loss of life.



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



Exceeding GVWR may lead to instability of the motorcycle, leading to an accident and result in serious injury or loss of life.

SAFE OPERATING RULES

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 an accident causing serious injury or loss of life.

WARNING

Use only genuine Royal Enfield replacement fasteners tightened to the proper torque (See your Royal Enfield work shop manual). We caution you against the use of certain nonstandard parts such as aftermarket and custom made fasteners which may not have specific strength, finish and type requirements to perform properly in the assembly and its environment.

The use of any nonstandard parts, including fasteners, could result in serious injury.

WARNING

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

SAFE OPERATING RULES

WARNING

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

WARNING

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

ACCESSORIES AND CARGO

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

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

WARNING

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

- Do not exceed 70 mph (110 km/h) riding solo.
- Do not exceed 55 mph (90 Km/h) when carrying a passenger or cargo.
- Keep cargo weight concentrated close to the motorcycle and as low as possible; this minimizes the change in the motorcycle's center of gravity.
 - ★ Distribute weight evenly on both sides of the motorcycle.
 - ★ Do not load bulky items too far behind the rider or add weight to the handlebars or front forks.
 - ★ Do not exceed 5 pounds (2.3 kgs) maximum load in each saddlebag.
 - ★ Recheck the cargo periodically.

ACCESSORIES AND CARGO

- Be sure cargo is secured and will not shift while riding. Accessories secured loosely may affect the riding of the motorcycle and affect the stability of the motorcycle.
- Additional electrical accessories and equipments may overload the motorcycle's electrical system and will result in system and/or component failure.
- Large surfaces such as fairings, windshields, backrests and luggage racks can adversely affect handling of the motorcycle. Only genuine Royal Enfield accessories, designed specifically for the motorcycle model should be used with proper installation.

WARNING

Royal Enfield motorcycles have been carefully designed and engineered for riding in their original configuration. Do not alter the handling characteristics of these motorcycles.

Doing so may affect its stability and could cause an accident resulting in serious injury.

WARNING

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

WARNING

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

TECHNICAL SPECIFICATIONS

ENGINE

Engine TypeSingle Cylinder, 4 Stroke, SOHC,
Air cooled, Fuel Injection

Bore78 mm

Stroke86 mm

Displacement.....411 cc

Compression ratio....9.5:1

Max power17.88 kW @ 6500 rpm

Max torque32 Nm @ 4250 ± 250 rpm

Idle rpm.....1300 ± 100 rpm

Starting systemElectric start

Air filter elementPaper element

LubricationForced lubrication, Wetsump

Engine oil capacity.....2.3 l (Initial fill only), 1.6-1.8 l
(Subsequent Refills)

Engine oil gradeSAE 15 W 50 API SL Grade
JASO MA 2 Semi synthetic

Cooling..... Air cooled with oil cooler

IGNITION SYSTEM

Ignition systemElectronic ECU/Variable

Spark plugBosch - UR5CC

Spark plug gap ...0.7 to 0.8 mm

TECHNICAL SPECIFICATIONS

TRANSMISSION

Clutch..... Wet multi plates

Secondary drive 5/8" chain & sprocket

Primary drive..... Gear

Secondary ratio..... 2.533:1

Primary ratio 2.312:1

Drive chain links..... 110 links

Gear box..... 5 Speed, constant mesh

Gear Ratio

1st Gear 1st 2.916:1

2nd Gear..... 2nd 1.833:1

3rd Gear..... 3rd 1.428:1

4th Gear..... 4th 1.173:1

5th Gear..... 5th 1.000:1

TECHNICAL SPECIFICATIONS

CHASSIS

Frame Half duplex split cradle frame

Suspension

Front..... Telescopic, 41 mm forks 190 mm travel

Rear..... Monoshock with linkage, 180mm
wheel travel

Brakes

Brake system..... Dual channel ABS

Front disc..... 300 mm Dia disc.

Rear disc 240 mm Dia disc.

Tubed and Steel Rim	Standard Tire
Front	Make, Tire : CEAT Size : 100/90-19" 57S
Rear	Make, Tire : CEAT Size : 120/90-17" 64S

TECHNICAL SPECIFICATIONS

Tire pressures

Solo

Front 25 psi / 1.75 kg/cm²

Rear 32 psi/ 2.25 kg/cm²

With pillion

Front 27 psi/ 1.89 kg/cm²

Rear 34 psi/ 2.39 kg/cm²

Steering lock In built

Fuel Type..... Unleaded Gasoline

Ethanol content..... E10 or less

Minimum octane..... 91 RON (Research octane rating number)

or higher

Fuel tank capacity* 15 ± 0.5 l (approx*)

Low fuel warning* Fuel segment 1st bar blinking

4 ± 0.5 l (approx*)

Dead stock..... 0.5 l (approx*)

* The above values are approximate and the actual capacity will vary with each fuel tank.

CAUTION

1. The use of petrol containing more than the specified ethanol may cause the fuel tank corrosion & paint damage and may also damage the rubber tubes in the fuel line as well.
2. It is recommended to use only unleaded petrol, as leaded petrol may cause damage to the catalytic converter.

TECHNICAL SPECIFICATIONS

ELECTRICALS

Flywheel magneto 221 W @ 1500 rpm

Generation Alternator, III Phase

System 12V - DC

Battery 12V, 8 AH Maintenance free

Head lamp 12V, H4-60/55 W - BULB

Tail lamp/Brake lamp..... 12V - 21/5 W - BULB

Licence Plate illuminator.....12V-LED

Front position lamp.....12V -LED

Speedometer lamp.....12V -LED

Hi beam indicator12V - LED

Neutral lamp telltale12V - LED

Turn signal telltale12V - LED

Turn signal.....12V, 10W *2 Nos

Horn12V, 2.5 A

Starter Motor12V, 0.7 kW

Instrument clusterDigital cluster with main LCD

Malfunction indicator.....12V - LED

ABS indicator.....12V - LED

Hazard switch.....12V, 10W *4 Nos

TECHNICAL SPECIFICATIONS

WARNING

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

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

DIMENSIONS

Length.....	2160 mm
Width	840 mm
Height	1165 mm
Wheel base	1455 mm
Ground clearance.	200 mm
Saddle height	795 mm

WEIGHTS

Kerb weight (90% fuel & oil) 194 kg

Gross Vehicle Weight 375 kg

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

RECOMMENDED LUBRICANTS

ENGINE OIL		FRONT FORK OIL		BRAKE FLUID	
Grade	SAE 15W 50 API SL Grade JASO MA 2 Semi Synthetic	Grade	10 W/Fork oil (Viscosity range 35)	Grade	DOT 4
Capacity	2.3 l (First Fill only) 1.6 -1.8 l Approx. (During oil & filter element replacement in periodical maintenance)	Capacity	455 ml/leg	Capacity	Front/Rear: 100 ml

CAUTION

Using non recommended/in-correct oils, can cause serious damage to the moving parts, affect performance of the motorcycle and void the warranty.

NOTE

Oil level should be up to "MAX" level. Do not overfill as it will affect the clutch functioning. Recommendation subject to change without notice.

MOTORCYCLE IDENTIFICATION NUMBER - DETAILS

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

Sample VIN:

ME3 G F M 24 X X X 4 XXXXX

World manufacturer
identification (WMI)

Make and type & line

Model

Engine type

Net brake horse power
of the engine in hp

Check digit

Model year

(2020:L, 2021:M, 2022:N)

Plant location

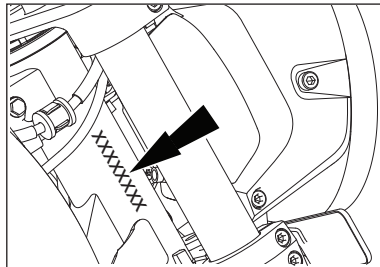
(C-Chennai, K-Kanchipuram, V-Vallam Vadagal)

Engine capacity
(4 - indicating 411 cc)

Running serial number

FRAME NUMBER

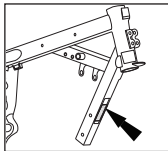
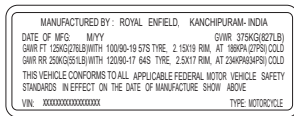
Punched on steering head tube right side.



MOTORCYCLE IDENTIFICATION NUMBER - DETAILS

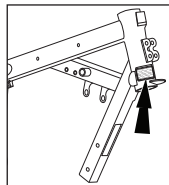
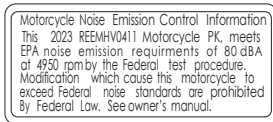
VIN INFORMATION LABEL

Affixed on Frame down tube (USA / CALIFORNIA)



NOISE LABEL

Noise Label on head tube



* Applicable for USA and CALIFORNIA

CAUTION

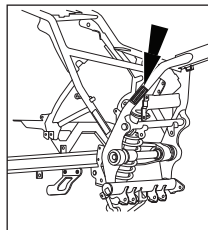
It is illegal to tamper with or alter the VIN/Engine numbers of the motorcycle as it will not only be against the law but will render the vehicle registration and warranty void.

MOTORCYCLE IDENTIFICATION NUMBER - DETAILS

EMISSION LABEL PART 1

Affixed on the Frame RH side

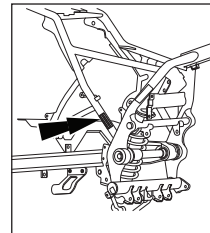
VEHICLE EMISSION CONTROL INFORMATION - PART 1			
THIS VEHICLE CONFORMS TO U.S. EPA AND CALIFORNIA ABT REGULATIONS APPLICABLE TO 2023 MODEL YEAR NEW MOTORCYCLES AND IS CERTIFIED TO 0.8 g/kwh HC + NOx AND 12 g/kwh CO EMISSION STANDARDS			
ENGINE FAMILY PREEC0411MD1	PERMEATION FAMILY PREEPMETALMD	EVAP FAMILY PREEU014MD1	DISPLACEMENT 411cc
MANUFACTURER: ROYAL ENFIELD, A UNIT OF EICHER MOTORS LIMITED, INDIA IMPORTER: ROYAL ENFIELD NORTH AMERICA LIMITED (SUBSIDIARY OF EICHER MOTORS LIMITED, INDIA), MILWAUKEE, WI 53202			



EMISSION LABEL PART 2

Affixed on the Frame RH side

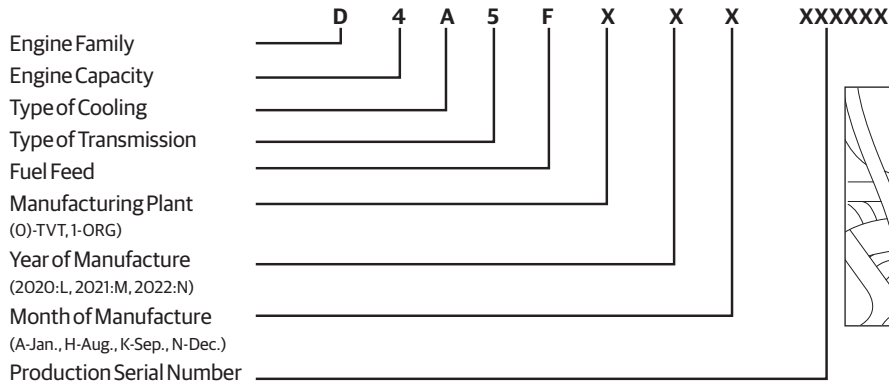
VEHICLE EMISSION CONTROL INFORMATION - PART 2	
EXHAUST EMISSION CONTROL SYSTEM <p>Labels in diagram: CANISTER (H2S), TWC (SPT), FUEL CAP (15Ltr), 1500 RPM VALVE, AIR FILTER, AIR HEAT EXCHANGER, CATALYST.</p>	ENGINE TUNE-UP SPECIFICATIONS: SLOW IDLE: 1300 ±100 RPM SPARK PLUG: UR5CC SPARK PLUG GAP: 0.7 to 0.8 mm FUEL: UNLEADED 91 OCTANE OR HIGHER ENGINE OIL: 15W-50, API SL GRADE



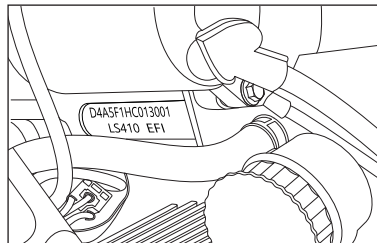
* Applicable for USA and CALIFORNIA

ENGINE NUMBER - DETAILS

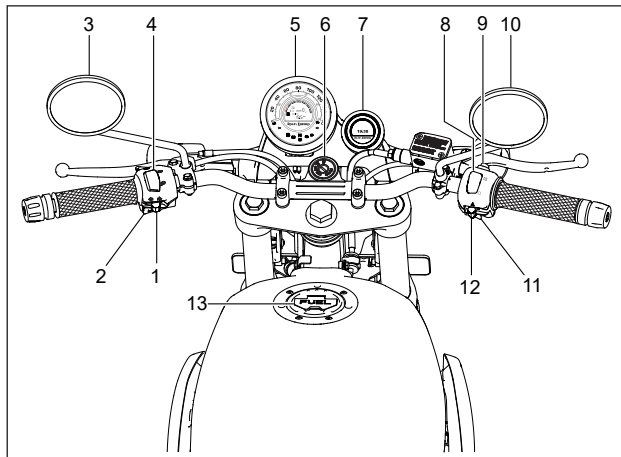
The engine number is punched on the left hand side crankcase. It is the means of identification of the engine and its production details. Please do not tamper with the engine number as its is prohibited by law.



ENGINE NUMBER

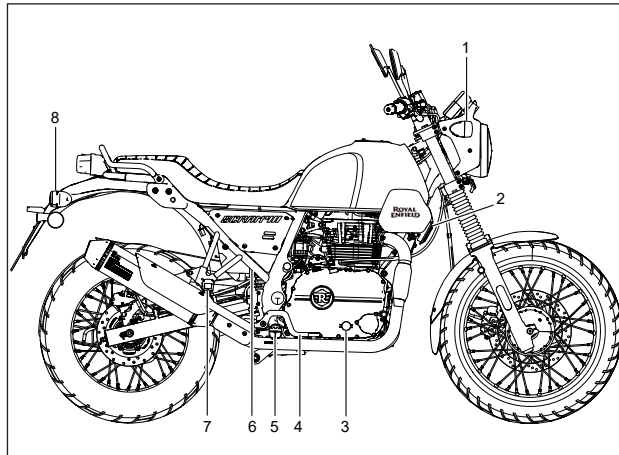


LOCATION OF KEY PARTS



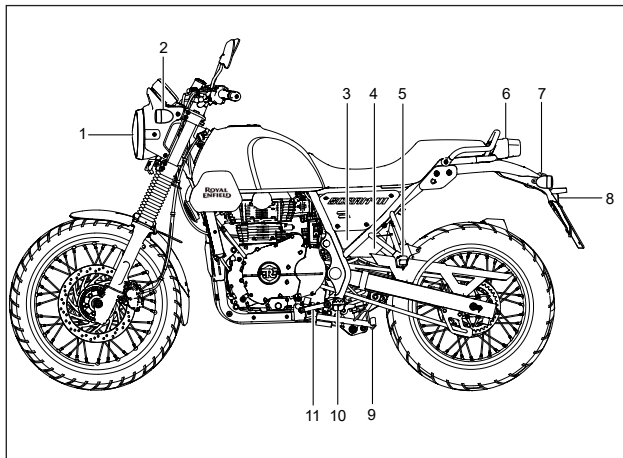
1. Turn signal switch
2. Horn button
3. Rear view mirror left side
4. Head lamp high beam/low beam switch
5. Instrument cluster
6. Ignition key
7. Tripper (If fitted)
8. Engine kill switch
9. Info button
(Which is available in the RH switch module)
10. Rear view mirror right side
11. Electric start switch
12. Hazard switch
13. Fuel tank cap

LOCATION OF KEY PARTS



1. Front trafficator right side
2. Horn
3. Oil level window
4. Rear brake pedal
5. Rider foot rest right side
6. ABS module
7. Pillion foot rest right side
8. Rear trafficator right side

LOCATION OF KEY PARTS



1. Head lamp
2. Front trafficator left side
3. ABS module
4. Canister
5. Pillion foot rest left side
6. Tail lamp
7. Reartrafficator left side
8. Licence plate illuminator
9. Side stand
10. Rider foot rest left side
11. Gear change lever

OPERATION OF CONTROLS

STEERING LOCK

LOCKING:

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



UNLOCKING:

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

CAUTION

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



WARNING

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

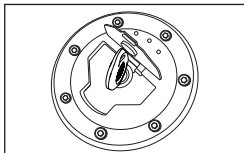
Failure to do so will cause unstable riding, leading to a potential accident, resulting in serious injury to both rider and other road users, besides causing severe damage to the motorcycle.

OPERATION OF CONTROLS

FUEL TANK CAP

OPENING:

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



NOTE

Key cannot be removed when fuel tank cap is open.

CLOSING:

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



WARNING

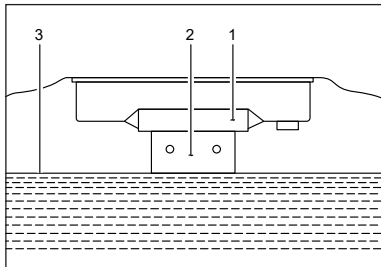
Do not overfill the fuel tank, stop filling when the fuel reaches bottom of anti-splash plate. Because fuel expands when it heats up, heat from engine or the sun can cause fuel spill out of fuel tank.

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

OPERATION OF CONTROLS

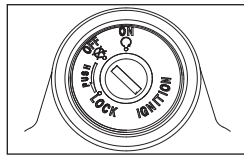
Please ensure petrol does not spill on painted surfaces. Wipe immediately incase fuel spills over as otherwise it will leave a permanent stain on the painted surfaces.

Anti splash plate



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

IGNITION SWITCH



NOTE

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



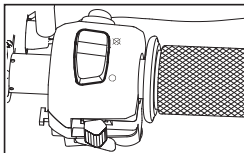
WARNING

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

OPERATION OF CONTROLS

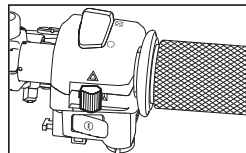
ENGINE STOP SWITCH

- ⊗ Engine "OFF"
- Engine "ON"



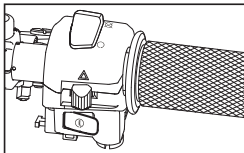
HAZARD LIGHT SWITCH

- ⚠ Hazard Light "ON"
- OFF



E-START SWITCH

Depress & hold until engine starts for a maximum of 5 seconds.



⚠ WARNING

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

OPERATION OF CONTROLS

CAUTION

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

Methods to activate hazard flasher :

Ignition switch ON, slide the hazard control to ON position. Hazard will work unless manual deactivation (OFF).

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

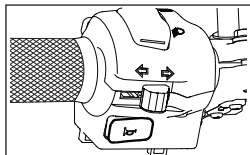
NOTE

Hazard flasher cannot be activated in Ignition switch OFF condition.

HORN



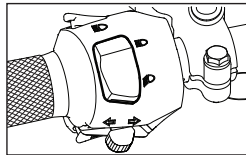
Press the horn button to sound horn.



DIMMER SWITCH

☐ High beam

▨ Low beam




OPERATION OF CONTROLS

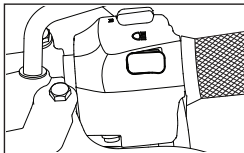
WARNING

Use appropriate headlamp beam high/low as per the traffic and road conditions for your safety and to avoid inconvenience to other riders.




DAY FLASH

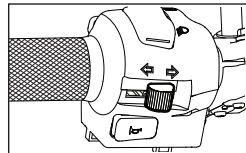
 Press for head light flash.

Press the switch to operate high beam filament in head light. It is giving indication to vehicle coming from opposite side while overtaking.



TURN SIGNAL SWITCH

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

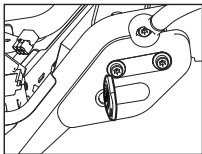


Push the button from "OFF" position to either left or right before turning as needed. To cancel the turn signal lights, push the switch in after it has returned to the center position.

OPERATION OF CONTROLS

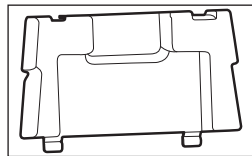
SEAT

1. Locate key on left side & turn clockwise, lift the seat and remove.



DOCUMENT HOLDER

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



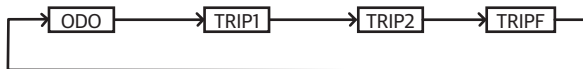
OPERATION OF CONTROLS

INFO BUTTON MANAGEMENT DETAILS

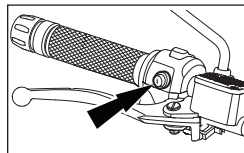
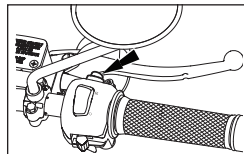
A. LCD SEQUENCE (Info switch press <1 sec.) :-

Press this button to select TRIP A/B, Clock settings and TRIP A/B reset in the cluster.

If Trip F enabled



If Trip F not enabled

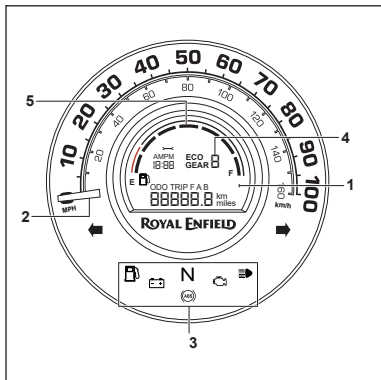


NOTE

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

OPERATION OF CONTROLS

INSTRUMENT CLUSTER - USA/CALIFORNIA



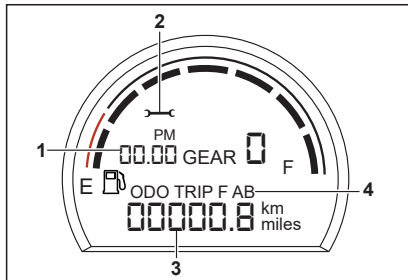
1. Main LCD
2. Speedometer (Miles major)
3. Tell tales
4. Gear position indication
5. Fuel gauge

DISCLAIMER :

Cluster unit display may look dull during sun overhead conditions this is normal and due to impact of direct sunlight on the unit customers to refer during other riding conditions.

OPERATION OF CONTROLS

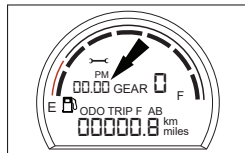
MAIN LCD



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

CLOCK

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



OPERATION OF CONTROLS

CLOCK SETTING

Function	Switch	Pressure time (s)	Action
CLOCK SETTING MODE	INFO	T>3sec	In ignition key on and odd mode with no speed input (safety) press info button for specified time to enter into will blink) in ign key on and odd mode with no speed input (safety) press info button for specified time to enter into will blink)
	INFO	0.2<T<1	Hours to increment
	INFO	T>3sec	Enter into minutes mode (minutes to blink)
	INFO	0.2<T<1	Minutes to increment
	INFO	T>3sec	Enter into unit mode (am/pm) to blink
	INFO	0.2<T<1	Toggle between am or pm
	INFO	T>3sec	Save data and exit clock setting mode

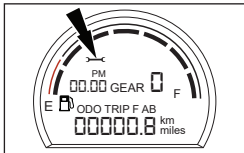
NOTE:

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

OPERATION OF CONTROLS

SERVICE REMINDER

1. In case of service reminder symbol is "ON". Please plan for scheduled service at an authorised service center.
2. Service reminder can be reset only by authorised personnel at service centre after service is completed.
3. Service reminder symbol will flash on as per below distance input from odometer.
 - i) 1st service - 450 km
 - ii) 2nd service - 4,900 km
 - iii) From there on for every 5,000 km from previous value (ex: 9,900. 14,900 etc.)



WARNING

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

ODOMETER

1. Displays the cumulative kilometers the vehicle has covered.



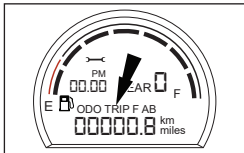
OPERATION OF CONTROLS

Function	Switch	Pressure time (s)	Action
ODO	INFO	$0.2 < T < 1$	In ignition key "ON" ODO > Trip A
TRIP A	INFO	$0.2 < T < 1$	Trip A > trip B
	INFO	$T > 3$	Reset Trip A
TRIP B	INFO	$0.2 < T < 1$	Trip B > Trip F / ODO
	INFO	$T > 3$	Reset Trip B

OPERATION OF CONTROLS

TRIP "F" MODE

1. Distance driven after low fuel tell tale is "ON".
2. Cannot be re-set Will be visible only when low fuel condition is sensed, will vanish if fuel is filled above low fuel condition.
3. Display can be toggled using info button during this condition but will auto appear after 25 sec linked with stand switch to avoid re-set when in side stand condition.
4. If ridden > 200 kms in Trip F condition "Low Fuel" will flash continuously on LCD. It is recommended not to ride vehicle in these condition as it will result in fuel pump damage.



TRIP "F" Condition

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

NOTE:

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

OPERATION OF CONTROLS

TRIP A/B

1. Trip A/B indicates distance travelled in particular trip.



GEAR POSITION INDICATION

1. Displays the gear position in which the vehicle is traveling.
2. When in neutral the indication will be "0".
3. When in gear the appropriate number between 1 to 5 will be displayed.



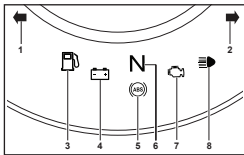
WARNING

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

OPERATION OF CONTROLS

TELL TALES

1. Turn left: Left turn signal "ON".
2. Turn right : Right turn signal "ON".
3. Low fuel indication : Last segment blinking along with low fuel tell tale "ON" for low fuel condition.
4. Low Battery Indication : Indicator will glow continuously if ignition switch is "ON" & engine is not running. Indication will switch off as soon as engine is started. If battery voltage is below 12 V, indicator will glow continuously indicating a low battery.
5. ABS MIL : Will be continuously "ON" during initial check up (until or after vehicle running for a particular distance/ speed) and will turn "OFF" if system is ok, then will light up again in case of any ABS system malfunction.
6. Neutral : Transmission is in neutral.



7. EMS: Malfunction indication :
8. High beam indication: Head lamp high beam "ON".

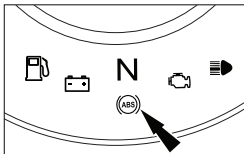
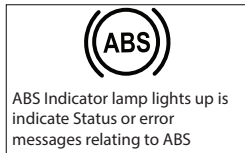
CAUTION

1. Do not run motorcycle incase the malfunction remains "ON" continuously as it can cause severe damage to the ECU & sensors. Please visit the nearest authorised Royal Enfield Dealer to diagnose & rectify the defect in the EMS.
2. Do not run motorcycle incase the ABS indicator lamp continuously "ON".

OPERATION OF CONTROLS

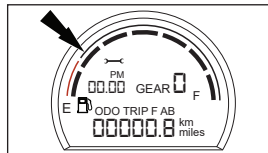
ABS INDICATOR LAMP

1. ABS indicator lamp continuously "ON" during initial check up (until or after vehicle running for a particular distance/speed) and will turn "OFF" if system is ok, then will light up again in case of any ABS system malfunction.



FUEL GAUGE

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



WARNING

Do not use the motorcycle for long duration with the fuel indication in last segment blinking. Refuel at the earliest.

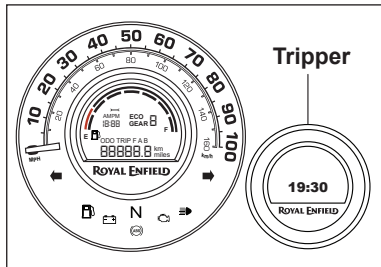
Failure to do so will cause the motorcycle to run out of fuel and get stranded in addition to causing serious damage to the fuel pump.

CAUTION

Do not run motorcycle in case the ABS Indicator lamp continuously "ON".

OPERATION OF CONTROLS - TRIPPER (IF FITTED)

TRIPPER



Tripper is being provided to have turn by turn navigation on motorcycle to help riders to have a hassle free riding without handling the smartphones. This device works based on bluetooth connectivity with navigation search based on Royal Enfield Mobile App with the support of Google Maps.

Device is capable of showing turn by turn navigation on a custom designed round color TFT with uniquely designed arrow font designed intuitively for ease of riding.

Background display can be switched between day mode and night mode which can be selected by riders from Royal Enfield Mobile App. Scan the QR Code, to download, Install, register and to know more about the Tripper.



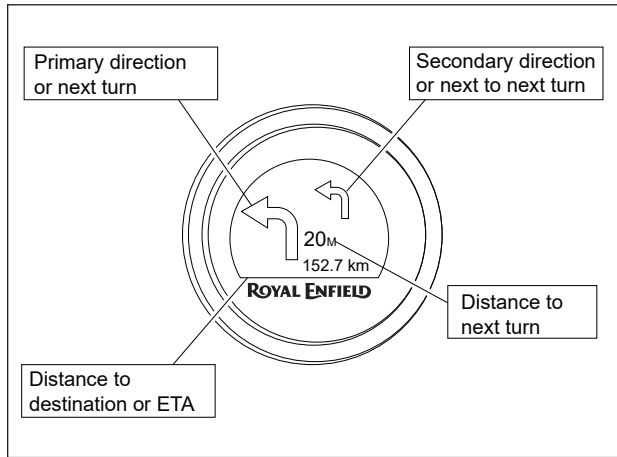
OPERATION OF CONTROLS - TRIPPER (IF FITTED)

Features:

1. Turn by turn navigation with primary turn, secondary turn.
2. Distance to next turn, distance to destination or Estimated Time of Arrival (ETA).
3. Clock display (in case of no connectivity, no navigation input or after destination is reached).
4. User can select day and night mode (through Royal Enfield Mobile App only).
5. Low battery indication.

DISCLAIMER

Trippler unit display may look dull during sun overhead conditions this is normal and due to impact of direct sunlight on the unit customers to refer during other riding conditions.



OPERATION OF CONTROLS - TRIPPER (IF FITTED)

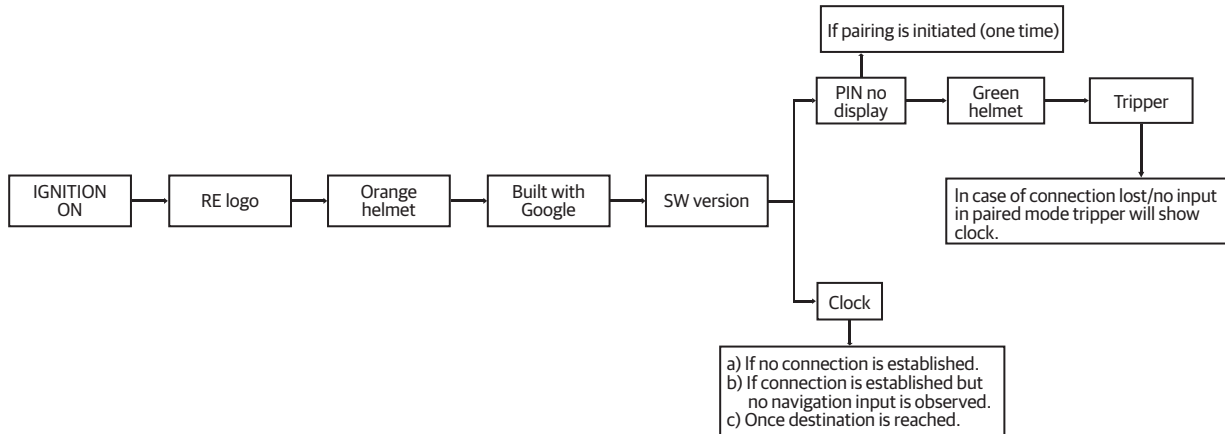
1. Primary direction or next turn: Indicates the next turn to be taken along with the distance.
2. Distance to next turn: Shows the distance to next turn.
3. Secondary direction or next to next turn: Indicates the next turn to be taken after the primary direction, will be shown only when primary turn is less than 100 m, if there is no turn the display will be blank in this region.
4. Distance to destination or ETA: Shows the total distance to destination or Estimated Time of Arrival (based on user selection from Royal Enfield Mobile App).

Smartphones compatible version to use Royal Enfield Mobile App:

1. Compatible with Android and iOS.
2. Android support: (Current version - 2).
3. iOS support: (Current version -1).
4. Connectivity control only through Royal Enfield Mobile App.

OPERATION OF CONTROLS - TRIPPER (IF FITTED)

TRIPPER - DISPLAY FLOW SEQUENCE



OPERATION OF CONTROLS-TRIPPER (IF FITTED)

NOTE

1. After every Ignition "ON" cycle tripper will be in discoverable mode for 120 sec.
2. Incase there is no connection established within 120 sec display will enter into clock mode to re-initiate connection Ignition "OFF-ON" cycle to be repeated.
3. During Navigation mode if there is no input from smartphone for 5 sec. Bluetooth connection will be terminated to avoid power draw and will display clock.
4. Bluetooth connection can be terminated by end user also by closing the mobile application.
5. For first time pairing user needs to enter the secured pin shown on tripper through Royal Enfield Mobile App to setup the device, after that auto-pairing will happen if same device is connected.
6. Everytime the tripper is paired the clock time will sync with mobile time after which it will continue to run with internal clock even in case of disconnection, there will be time difference between time shown on instrument cluster and tripper - customer needs to update cluster clock inline with time shown on tripper as and when required as mentioned in push button management of cluster.
7. Do not apply or use gasoline/petrol related fluids for cleaning or wiping on instrument cluster or Tripper, as it will result in permanent damage to the same.

OPERATION OF CONTROLS-TRIPPER (IF FITTED)

CAUTION

1. Ensure ignition is "ON" and display is in powered while establishing connection.
2. Ensure first time pairing is done in isolated environment to avoid cross connections (one time).
3. Day and night mode is user selectable only, will not change over automatically to be selected during night driving to avoid rider distraction.
4. Bluetooth connection can be established only through Royal Enfield Mobile App.
5. Ensure bluetooth and location settings are turned always "ON" before usage.
6. Disable battery optimisation settings/low battery cut-off setting of smartphone for navigation to work in low battery mode.
7. Royal Enfield Mobile App works only with Android (Current version -2) and iOS (Current version -1) versions, for other lower versions performance lag can be expected.
8. Tripper bluetooth version is V4.2.
9. Tripper time display may have a mismatch with actual time displayed in mobile device once the bluetooth connectivity is lost.
10. Royal Enfield Mobile App works with bluetooth version 4.2 and N+ 1.0, for other lower versions performance lag can be expected.
11. Check for network signal strength in case of navigation lag.
12. Check for data speed in case of navigation lag, navigation system performance is better in 4G band compared to other lower versions.
13. Calibrate mobile phones frequently for more GPS accuracy & location accuracy is dependent on.

PRE - OPERATIONAL CHECKS

1. Ensure adequate fuel in fuel tank for the journey planned.
2. Tires inflated to correct pressure.
3. No side wall cracks cuts or abrasions in the front and rear tires.
4. Rear chain for proper tension and sufficiently lubricated.
5. Engine oil level.
6. Control cables, inner, not damaged, frayed or broken. Clutch and accelerator controls working smoothly.
7. Front and rear brake efficiency and free play in front and rear brake levers.
8. Hydraulic oil level correct in both front and rear master cylinders.
9. Free movement of handle bar to left and right sides.
10. All electrical controls horn working correctly
11. Head lamp, tail lamps, brake lamps and indicator lamps working correctly.
12. Front and rear wheel axle nuts tightened properly to torque.
13. Front and rear wheel spokes ensure fixed firmly, no loose or broken spokes.
14. All fasteners are tight to required torque.
15. Engine idling correctly and smooth.
16. No abnormal noise/any leak from engine.



WARNING

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

SAFE & HAPPY RIDING

1. Please read this manual carefully to get to know the motorcycle and its maintenance schedules.
2. Please exercise utmost caution while refueling. Open the lid carefully and slowly. Refuel only in a well ventilated area with the ignition switched "OFF".
3. Gasoline is highly explosive and inflammable. Do not smoke or refuel if there are any naked flames or sparks nearby. Switch "OFF" mobile phones and other hand held electronic devices.
4. Know and respect the rules of the road. Please be a safe rider for your own safety and for other road users.
5. Please ride your motorcycle defensively. Remember a motorcycle does not afford the same protection as an automobile.
6. Ride only at moderate speeds and out of traffic until you have become familiar with the handling characteristics of your motorcycle under all conditions.
7. Do not exceed the legal speed limit. Always reduce speed when poor driving conditions exist. Use extra caution when approaching and passing through intersections, since intersections are the most likely places where accidents happen.
8. Ride where other motorists can easily spot you. Please do not ride in another motorist's "blind spot".
9. Always signal well in advance before turning or changing lanes. Make sure that other motorists can see your signaling and slow down.
10. Never ride under the influence of alcohol or other drugs that might affect your riding skills reflex.
11. When riding with pillion rider, it is your responsibility to instruct them on proper riding procedures and riding gear.
12. If you are a new rider we recommend that you obtain formal training on correct motorcycle riding techniques. New riders should gain experience under various conditions while driving at moderate speeds. Pay strict attention to road surfaces and wind conditions.
13. 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.

SAFE & HAPPY RIDING

RIDING GEAR

1. Motorcycle riding pants and jacket fitted with certified Armour.
2. Motorcycle riding boots.
3. Motorcycle riding gloves.
4. ISI, DOT or SNELL certified helmet as applicable for rider and pillion.
5. Never wear loose-fitting clothes; otherwise they could catch on the control levers, footrests or wheels and cause injury or an accident.
6. Always wear protective clothing that covers your legs, ankles, and feet. The engine or exhaust system become very hot during or after operation and can cause burns.

CAUTION

Avoid any contact with the exhaust system. The exhaust system gets very hot and remains hot for a long time after parking the motorcycle. Wear clothing that will completely cover the legs while riding. Failure to do so will result in serious burn injuries.

SAFE & HAPPY RIDING

SITTING POSTURE

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

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

BRAKING

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



WARNING

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



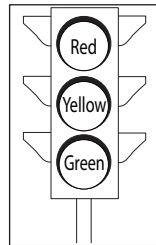
WARNING

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

Do not place the foot on the brake pedal while riding unless braking is required. Because this will lead to premature wear of brake pad.

RULES OF THE ROAD

1. Be sure your number plate is installed in the position specified by law and is clearly visible at all times.
2. Ride at a safe speed that is consistent with the type of road surface you are on. Pay strict attention to whether the surface is:
 - Dry
 - Oily
 - Icy
 - WetWatch for loose debris, such as leaves, slippery substances or loose gravel that can hamper the stability of your vehicle.
3. Do not exceed the legal speed limit or drive too fast for existing conditions. Always reduce speed when poor driving conditions exist. High speed increases the influence of any other condition affecting stability and increases the possibility of loss of control.
4. Keep to the correct side of the road center line when meeting oncoming vehicle.
5. All traffic signs, including manual controls at intersections, should be obeyed promptly. Slow down at traffic signs near schools and caution signs at rail road crossings.
6. 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.
7. 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.
8. Do not leave the curb or parking area without signaling. Be sure your way is clear to enter moving traffic. A moving line of traffic always has the right-of-way.

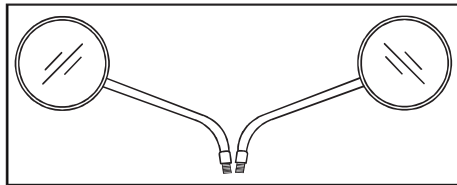


RULES OF THE ROAD

9. When parking the motorcycle, park on a firm and flat surface to prevent it from falling over.
10. 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.



NOTE

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

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.

RUNNING IN PERIOD

The Scram 411 Motorcycle 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. During the first 2,000 km/1243 miles of run, do not exceed the speed limits as shown in the table below.
2. Do not exceed maximum specified payload.
3. Warm up the engine for a few minutes at idling speed to allow engine oil to lubricate all the moving parts in the engine before riding the motorcycle.
4. Avoid full throttle operation and do not ride at constant throttle continuously. Vary the speed by 10% while riding.
5. Avoid sudden accelerations and racing starts.
6. Avoid prolonged full-throttle operation. Vary speed occasionally.

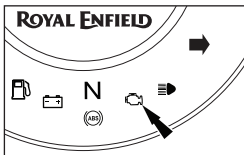
Motorcycle Speed Gear	First 500 km / 310 miles	501 - 2,000 km / 310 - 1243 miles
1	15 kmph / 9.35 mph	20 kmph / 12.42 mph
2	25 kmph / 15.53 mph	30 kmph / 18.64 mph
3	30 kmph / 18.64 mph	40 kmph / 24.85 mph
4	45 kmph / 27.96 mph	55 kmph / 34.17 mph
5	60 kmph / 37.28 mph	80 kmph / 49.70 mph

WARNING INDICATIONS & SAFETY SYSTEMS

1. ENGINE MALFUNCTION INDICATOR LAMP

A Malfunctioning Indicator Lamp (MIL) is provided in the Cluster. When both the ignition & engine kill switch is "ON" and after vehicle is started, the MIL will glow for few seconds and switch "OFF", this indicates that all the functions of Electronic Fuel Injection (EFI) system is functioning normally.

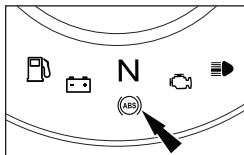
In the event of any malfunction in the EFI System the MIL will glow continuously. It is recommended to take the motorcycle to a nearest Royal Enfield Authorized Service station for a detailed inspection and correction of the EFI system.



2. Anti-Lock Braking System (ABS)

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

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

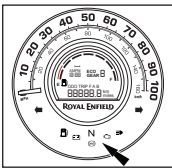


WARNING INDICATIONS & SAFETY SYSTEMS

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

When the ignition and kill switch are switched "ON", the ABS sign light up and remain "ON" till the motorcycle attains a speed of 5 kmph (3 mph) and switch "OFF".

This indicates the ABS is working properly. In the event the lamp does not switch "OFF" and remains continuously "ON" at higher speeds, it is recommended not to drive the motorcycle and get the brake system inspected and corrected through a nearest authorized Royal Enfield distributor. Failure to do so can result in a serious injuries and loss of life.



3. ROLL OVER SENSOR

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

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

WARNING INDICATIONS & SAFETY SYSTEMS

CAUTION (ABS)

1. ABS is a safety feature to help prevent locking of wheels during sudden application of brakes. It is by no means a substitute for good riding practices and anticipatory braking.
2. 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.
3. 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.
4. Please apply both brakes to stop - front brake momentarily earlier, followed by rear brake. To have better traction and control of the motorcycle.
5. Always ensure that you ride well within the legal speed limits.
6. Failure to adhere to the above can cause an accident resulting in serious injuries and loss of life.
7. The control function causes a slight pulsing of the hand and foot brake levers.

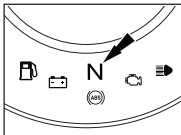
WARNING INDICATIONS & SAFETY SYSTEMS

DO'S & DON'TS : (ABS)

DO'S	DON'TS
■ While starting the engine do check the ABS indicator comes "ON" and switches "OFF" when the vehicle speed exceeds 5 kmph (3.1 mph).	■ 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.
■ Please check the brake fluid at "MAX" level in the front and rear brake master cylinders and there is no leak in the brakes systems.	
■ Apply both the brakes simultaneously for better efficiency while braking.	■ Do not apply only the front or rear brakes it can lead to inefficient braking.
■ In the event of the ABS indicator remaining continuously "ON" please take the motorcycle to a nearest authorized Royal Enfield Service station to inspect the brakes system control of the vehicle.	

STARTING

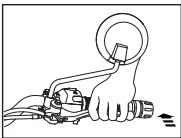
Ensure gear is in neutral position and the neutral indicator " N " is glowing in the instrument cluster. To shift into neutral, move the motorcycle back and forth gently, while simultaneously shifting the gear.



CAUTION

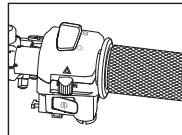
Do not attempt to shift gears when engine is "OFF" and rear wheel is stationary as it will cause damage to gear shift mechanism. Please move motorcycle back and forth while simultaneously shifting gears.

1. Switch "ON" ignition and the kill switch to "RUN" position.
2. Depress clutch lever fully.
3. Press starter button and hold till engine starts.



CAUTION

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



CAUTION

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

STARTING

NOTE

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

As soon as the engine sufficiently warms up then Manual Bi-Starter should be released.

NOTE

1. It is recommended to switch off the engine when the engine is in idling condition for long time.
2. It is recommended not to accelerate by giving excessive throttle for more than 5 min when the engine is in idle condition, which will cause damage to the engine internal parts and exhaust system as well.

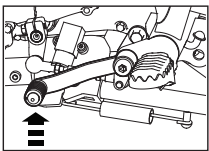
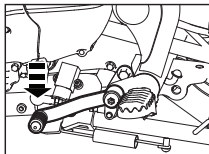
GEAR SHIFTING, RIDING & STOPPING

1. Warm up engine for 2 min - until idling is consistent.

Gear Shift Pattern

1-N-2-3-4-5

2. Press clutch lever towards the hand grip.
3. Press gear pedal with toe to engage 1st gear.
4. Gently open throttle and release clutch simultaneously. If clutch is released suddenly, the engine will stall and cause a jerky start.
5. Lift gear lever with toe to engage 2nd and subsequent gears.



NOTE

1. Always start the engine with gear in neutral position.
2. Always move the motorcycle in 1st gear position only.
3. The Motorcycle may begin to slow down and show lack of power while climbing steep hills. In that case, you should shift to a lower gear so that engine will be operating in normal power range which will prevent the motorcycle from losing momentum. The engine may be used for braking by shifting to a lower gear while riding down to steep hill.

Shift	Gears	Vehicle Speed	
		kmph	mph
Up Shift	1 st - 2 nd	20	12.4
	2 nd - 3 rd	35	21.7
	3 rd - 4 th	45	28.0
	4 th - 5 th	55	34.2
Down Shift	5 th - 4 th	47	29.2
	4 th - 3 rd	37	23.0
	3 rd - 2 nd	25	15.5
	2 nd - 1 st	18	11.2

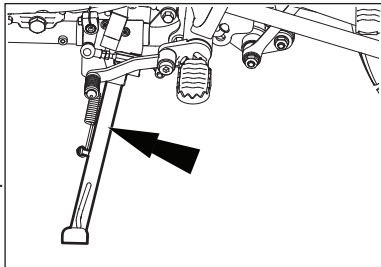
CAUTION

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

PARKING

PARKING MOTORCYCLE ON SIDE STAND

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



CAUTION

When Side stand is in "ON" position.

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

WARNING

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

NOTE

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 will become damaged and the motorcycle will fall over.

PERIODICAL MAINTENANCE

The Periodical maintenance schedule detailed below is based upon average riding conditions and indicates the intervals at which regular inspections, adjustments, replacements and lubrications must be carried out to help maintain your Scram 411 motorcycle meticulously. If in case the motorcycle is used frequently in very dusty environment/severe climatic conditions/poor roads/stagnant water etc., the maintenance will need to be done earlier as will be required.

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

Sl. No.	DESCRIPTION	PERIODICAL MAINTENANCE (Whichever is earlier)										
		Km (x 1,000)	5	10	15	20	25	30	35	40	45	50
	Miles (x 1,000)	0.3	3	6	9	12	15	18	21	25	28	31
	Months	1.5	6	12	18	24	30	36	42	48	54	60
1	Engine oil (level check/replace)	R	I	R	I	R	I	R	I	R	I	R
		Check level at every 1,000 km or earlier as required										
2	Engine oil filter element	R		R		R		R		R		R
3	Engine oil strainer on crankcase LH	C		C		C		C		C		C
4	Inlet/Exhaust tappet setting	I&A	I&A	I&A	I&A	I&A	I&A	I&A	I&A	I&A	I&A	I&A
5	Rubber hose, Inlet manifold	I	I	I	I	I	I	I	I	R	I	I

PERIODICAL MAINTENANCE

Sl. No.	DESCRIPTION	PERIODICAL MAINTENANCE (Whichever is earlier)										
		Km (x 1,000)	5	10	15	20	25	30	35	40	45	50
	Miles (x 1,000)	0.3	3	6	9	12	15	18	21	25	28	31
	Months	1.5	6	12	18	24	30	36	42	48	54	60
6	Oil cooler inlet & outlet pipes	I	I	I	I	I	I	I	I	I	I	I
7	Spark plug	C&A	C&A	C&A	R	C&A	C&A	R	C&A	C&A	R	C&A
8	HT leads for crack	I	I	I	I	I	I	I	I	I	I	I
9	Fuel hose & clip	I	I	I	I	I	I	I	I	R	I	I
10	Fuel pump (under tank) mounting	Check for screw tightness in all services										
11	Air filter element	C	C	R	C	R	C	R	C	R	C	R
		Clean/ Replace more frequently if motorcycle always used in dusty / off Road conditions.										
12	Accelerator cable	I&A	I&A	I&A	I&A	I/A/R	I/A/R	I/A/R	I/A/R	I/A/R	I/A/R	I/A/R

PERIODICAL MAINTENANCE

Sl. No.	DESCRIPTION	PERIODICAL MAINTENANCE (Whichever is earlier)										
		Km (x 1,000)	0.5	5	10	15	20	25	30	35	40	45
	Miles (x 1,000)	0.3	3	6	9	12	15	18	21	25	28	31
	Months	1.5	6	12	18	24	30	36	42	48	54	60
13	Rubber hose, Air filter to throttle body	I	I	I	I	I	I	I	I	R	I	I
14	PAV pipes & Hose clip	I	I	I	I	I	I	I	I	R	I	I
15	Evaporative emission equipment rubber hoses	I	I	I	I	I	I	I	I	R	I	I
16	Throttle body	Throttle body should be removed from the vehicle and cleaned with a dry Micro-fibre cloth. Usage of throttle body cleaners or any similar solvent or alcohol based liquids for cleaning is strictly prohibited. Throttle body cleaning every 10,000 kms / 12 Months or earlier as required.										
17	Clutch cable	I&A	I&A	I&A	I&A	I/A/R	I/A/R	I/A/R	I/A/R	I/A/R	I/A/R	I/A/R
18	Clutch free play	Adjust every 1,000 kms or earlier as required										
19	Clutch no slippage	I	I	I	I	I	I	I	I	I	I	I

PERIODICAL MAINTENANCE

Sl. No.	DESCRIPTION	PERIODICAL MAINTENANCE (Whichever is earlier)										
		Km (x 1,000)	0.5	5	10	15	20	25	30	35	40	45
	Miles (x 1,000)	0.3	3	6	9	12	15	18	21	25	28	31
	Months	1.5	6	12	18	24	30	36	42	48	54	60
20	Steering head bearings#	I&A	Inspect, adjust & lubricate for every 5,000 km or earlier as required. Replace if necessary									
21	Front fork oil/leak	I	I	I	I	R	I	I	I	R	I	I
22	Rear wheel drive chain#	I&A	Clean, lubricate & adjust every 1,000 kms or earlier as required									
23	Battery terminals (apply petroleum jelly)	C	C	C	C	C	C	C	C	C	C	C
24	Earth wire eyelet tightness			I		I		I		I		I
25	Hydraulic brake fluid - front & rear#	I	I	I	I	R	I	I	I	R	I	I
26	Hydraulic brake hose & washers - front & rear#	I	I	I	I	I	I	I	I	I	I	I

PERIODICAL MAINTENANCE

Sl. No.	DESCRIPTION	PERIODICAL MAINTENANCE (Whichever is earlier)										
		Km (x 1,000)	5	10	15	20	25	30	35	40	45	50
	Miles (x 1,000)	0.3	3	6	9	12	15	18	21	25	28	31
	Months	1.5	6	12	18	24	30	36	42	48	54	60
27	Brake pads- front & rear#											
28	Tire wear pattern (front & rear)# (1)											
29	Spokes tightness/Wheel rim run out front & rear#											
30	Front & Rear wheel bearings for play#						I&R					I&R
31	Swing arm pivot bearings#		Inspect & If required lubricate for every 5,000 km or earlier as required. Replace if necessary									
32	Rear suspension linkages#		Inspect & If required lubricate for every 5,000 km or earlier as required. Replace if necessary									

PERIODICAL MAINTENANCE

Sl. No.	DESCRIPTION	PERIODICAL MAINTENANCE (Whichever is earlier)										
		Km (x 1,000)	0.5	5	10	15	20	25	30	35	40	45
	Miles (x 1,000)	0.3	3	6	9	12	15	18	21	25	28	31
	Months	1.5	6	12	18	24	30	36	42	48	54	60
33	Rear brake pedal pivot	L	L	L	L	L	L	L	L	L	L	L
34	Rear brake pedal free play	Adjust every 1,000 kms or earlier as required										
35	Rear wheel cush rubbers#	I	I	I	I	I	I	I	I	I	I	I
36	All mounting fasteners in vehicle for tightness#	I&T	I&T	I&T	I&T	I&T	I&T	I&T	I&T	I&T	I&T	I&T
37	Hand levers, center stand, side stand, rider & pillion foot rest pivots & gear shift levers#	Lubricate every 1,000 kms or earlier as required										
38	Cam chain/chain pads/auto chain tensioner	I	I	I	I	I	I	I	I	I	I	I&R

PERIODICAL MAINTENANCE

Sl. No.	DESCRIPTION	PERIODICAL MAINTENANCE (Whichever is earlier)										
		Km (x 1,000)	0.5	5	10	15	20	25	30	35	40	45
	Miles (x 1,000)	0.3	3	6	9	12	15	18	21	25	28	31
	Months	1.5	6	12	18	24	30	36	42	48	54	60
39	Starter motor & starter relay connections	I	I	I	I	I	I	I	I	I	I	I
40	Side stand switch operation	I	I	I	I	I	I	I	I	I	I	I

A: Adjust

C: Clean

I : Inspect (Clean. Adjust. Lubricate or Replace if necessary)

T : Re-tighten (2)

L: Lubricate

R: Replace

Service more frequently when ridden in unusually wet or dusty areas.

Service more frequently when riding in rain or at full throttle.

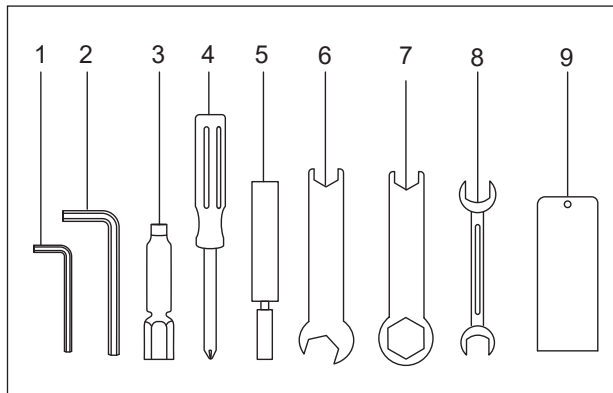
#(1) Tire to be replaced if the tire wear identification mark reached (2) To be done at authorised Royal Enfield Dealer/Service Center

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

TOOLS KIT

The tools kit is strapped underneath the pillion seat.

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

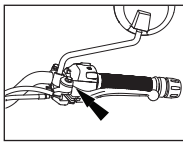


MINOR MAINTENANCE TIPS

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

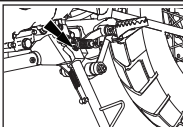
HAND LEVER PIVOTS

Wipe the area free of dirt/grease. Apply a few drops of oil on the pivots.



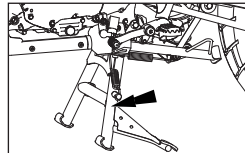
SIDE STAND PIVOTS

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



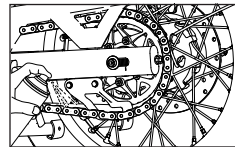
CENTER STAND PIVOTS

Lubricate the center stand pivot periodically for smoother operation of center stand.



DRIVE CHAIN

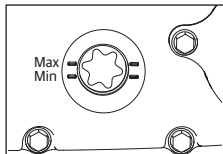
Clean the drive chain carefully. Apply chain lubricant while simultaneously rotating the rear wheel. Wipe off the excess lubricant.



MINOR MAINTENANCE TIPS

OIL LEVEL INSPECTION

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



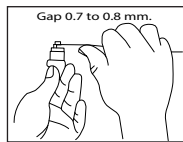
CAUTION

Using non recommended/in-correct oils, can cause serious damage to the moving parts, affect performance of the motorcycle and void the warranty.

SPARK PLUG

CLEANING AND ADJUSTING PLUG GAP

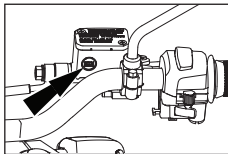
1. Remove the spark plug cap from the spark plug.
2. Remove spark plug using the plug spanner and tommy bar.
3. Clean the insulator tip and electrodes of the plug carefully.
4. Replace the spark plug every 15,000 km.
5. Refit the spark plug on the cylinder head.
6. Refit the spark plug cap on the spark plug.
7. Make sure the spark plug, spark plug cap and HT cable are proper fitment.



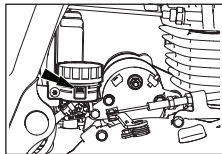
MINOR MAINTENANCE TIPS

BRAKE FLUID

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



FRONT BRAKE



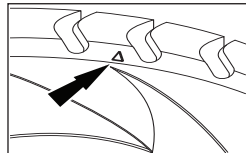
REAR BRAKE

CAUTION

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

INSPECTION OF TIRES AND RIMS

1. Periodically inspect:
 - Rims for spokes breakage wheel rim and run-out.
 - Tires for proper seating of the beading on the rims.
2. Check and remove stone, splinters, nails or other sharp particles embedded in the tire.
3. Replace tires if
 - Side wall cracks, cuts or damages, uneven lugs wear etc.
 - Tire lugs work out upto the "wear indicator" symbol on the side wall.
4. Use only recommended tires & tubes, inflated to correct air pressure.



	Front	Rear
Solo	1.75 kg/cm' (25 psi)	2.25 kg/cm' (32 psi)
With Pillion	1.89 kg/cm' (27 psi)	2.39 kg/cm' (34 psi)

MINOR MAINTENANCE TIPS

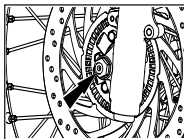
WARNING

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

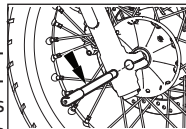
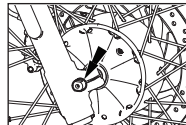
Failure to do so may cause loss of control on the motorcycle, leading to a potential accident, resulting in serious injury to both rider and other road users, besides causing severe damage to the motorcycle.

FRONT WHEEL REMOVAL

1. Support front end of engine suitably such that the front wheel is off the ground.
2. Loosen pinch bolt on right fork end with 6 mm allen key.



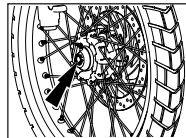
3. Hold spindle on right side and remove spindle nut and washer from left side.
4. Support wheel and pull out spindle from right side.
5. Remove the wheel along with RH side collar & disc side spacer.



CAUTION

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

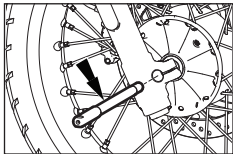
1. Place a suitable spacer of 4 mm thickness, between the brake pads to avoid accidental compression of the brake lever.



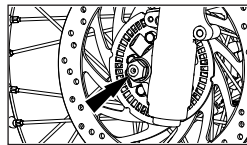
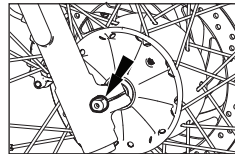
MINOR MAINTENANCE TIPS

FRONT WHEEL REASSEMBLY

1. Remove the spacer placed between the brake pads.
2. Position the wheel along with RH side collar & disc side spacer on left side between the front fork legs, ensuring the brake disc is located between the brake pads.
3. Insert wheel spindle from right fork end.
4. Ensure the position of RH side collar & disc side spacer aligned properly.
5. Holds spindle on right side, locate washer and nut on spindle on left side and tighten firmly.



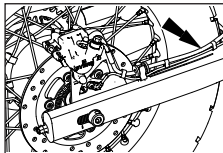
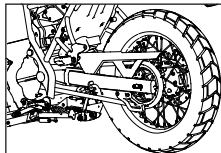
6. Tighten pinch bolt on right fork end.
7. Rotate wheel and check for smooth rotation.
8. Press brake lever and check front brake for efficiency.



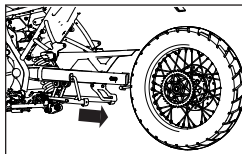
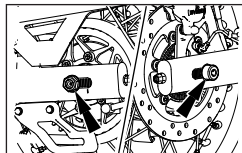
MINOR MAINTENANCE TIPS

REAR WHEEL REMOVAL

1. Ensure the motorcycle is on a firm, flat surface and the rear wheel is off the ground.
2. Gently remove the brake hose along with its rubber grommets from the locating clips on the swing arm
3. Loosen rear axle nut on the right side and remove along with washer.
4. Pull out the wheel axle from the left side, taking care not to drop the wheel spacers.



5. Remove the brake caliper assembly from the slot in the swing arm along with ABS wheel speed sensor and support it suitably to avoid damage to the brake hose and ABS wheel speed sensor.
6. Slide out the rear wheel from the swing arm, taking care not to drop the spacers on the wheel hub .



CAUTION

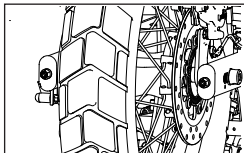
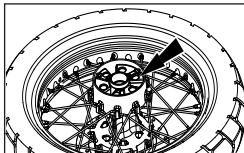
Do not press the brake lever when wheel is removed as this will result in the brake pads coming out too far from the brake caliper.

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

MINOR MAINTENANCE TIPS

REAR WHEEL REASSEMBLY

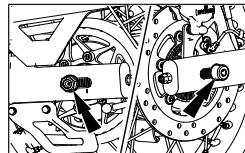
1. Ensure the cush rubbers are in place in the wheel hub.
2. Insert the wheel assembly between the swing arms and position the cush rubbers on the rear sprocket lugs correctly.
3. Remove the spacer between the brake pads and locate the caliper such that the brake disc is between the brake pads.
4. Locate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



7. Insert the wheel axle from the left side of the swing arm and gently tap it in.

CAUTION

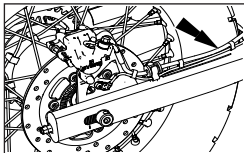
1. Do not force the spindle through as it will cause damage to the threaded end.
2. Ensure correct chain tension and rear wheel alignment with front wheel by adjusting the adjusters on both left and right side of swing arm.
3. Assemble washer and wheel axle nut on right side and tighten to correct torque.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



MINOR MAINTENANCE TIPS

CAUTION

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

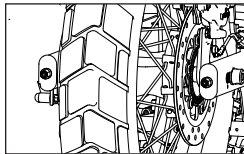
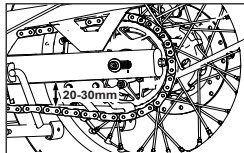


DRIVE CHAIN TENSION (FREE PLAY 20-30 mm)

1. Measure the drive chain free play on the top run of the chain.
2. The recommended free play is 20 to 30 mm.

To adjust the chain tension and free play

3. Loosen rear wheel spindle nut.
4. Loosen lock nuts of the chain adjuster on both ends of the swing arm.
5. Tighten/loosen the adjuster nut on left swing arm end, to reduce/increase chain tension.
6. Ensure the ground is level & firm and place the motorcycle in its center stand.



MINOR MAINTENANCE TIPS

7. Rotate wheel slowly and check chain free play at the top run to be between 20 - 30 mm.
8. Tighten/loosen adjuster nut on right side to align the front and rear wheels and also to align the reference marks on both left and right side of the swing arm.
9. Tighten the lock nuts against the adjuster nuts, taking care not to disturb the adjuster nut settings.
10. Tighten rear wheel spindle nut to a specified torque.



WARNING

Please follow instructions as per periodical maintenance.

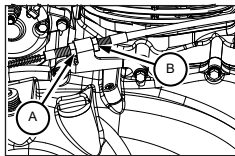
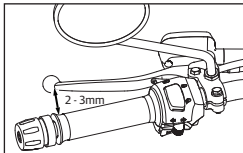
1. Chain slackness beyond 30 mm will lead to chain slippage.
2. Maintain drive chain slackness within the specified limits at every 1,000 km interval.
3. Please check the front and rear wheels are correctly aligned, after the chain adjustment.
4. If the engine/rear sprocket are worn, replace the engine/rear sprocket & rear chain as a kit.

MINOR MAINTENANCE TIPS

ADJUSTMENTS - CLUTCH LEVER FREE PLAY

Clutch lever (free play 2 - 3 mm)

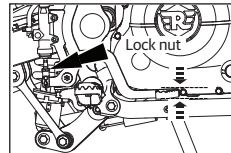
1. Loosen the cable outer lock nut (A).
2. Turn the nut (B) clockwise to reduce the play or anticlockwise to increase the free play.
3. Check free play 2 to 3 mm at clutch lever pivot on handle bar end.
4. Tighten lock nut (A) after adjustment is done.



ADJUSTMENTS - REAR BREAK PEDAL FREE PLAY

Rear brake pedal free play 7 to 11 mm.

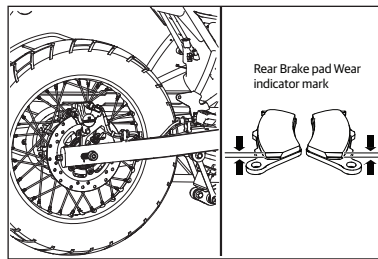
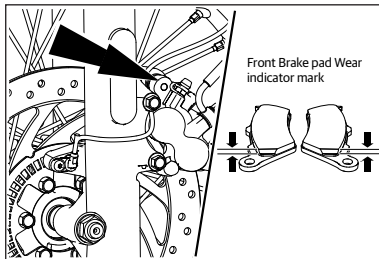
1. Loosen the lock nut in master cylinder push rod assembly.
2. Rotate the master cylinder push rod anti clockwise to reduce the rear brake pedal free play.
3. Rotate the master cylinder push rod clockwise to increase the rear brake pedal free play.
4. After adjustment tighten the lock nut in master cylinder push rod assembly.



MINOR MAINTENANCE TIPS

BRAKE PAD WEAR

- Brake pad wear depends upon the severity of usage, the type of riding and road condition.

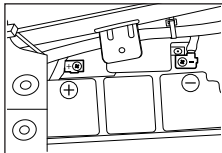


Check the wear indicator mark on each pad. If either pad is worn to the wear indicator mark. Replace both pads as set. Visit Royal Enfield Dealer for this service.

MINOR MAINTENANCE TIPS

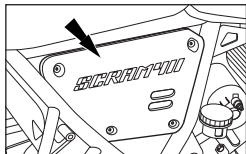
BATTERY & MAINTENANCE

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

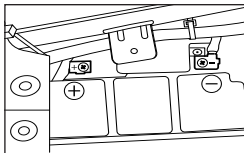
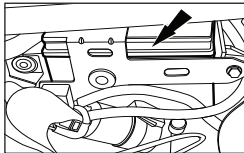
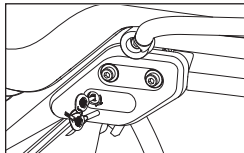


REMOVAL OF BATTERY FROM THE MOTORCYCLE

1. Ensure motorcycle is parked on its center stand, in a well ventilated area.
2. Ensure the ignition switch and engine stop switch are in "OFF" position.



3. Remove the side panel on the right side by unscrewing the hex socket button head screws.
4. Unlock(turn the key clockwise) and remove the seat.
5. Disconnect the harness connectors around the battery located area.
6. Remove the battery carrier bracket by loosening the hex bolt.
7. Disconnect both the battery terminals wires(negative first and positive next respectively).
8. Take out the battery.



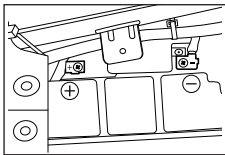
MINOR MAINTENANCE TIPS

WARNING

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

REASSEMBLY OF BATTERY ON MOTORCYCLE

1. Position the battery in the battery carrier such that the terminals are facing inside.
2. Ensure ignition switch is in "OFF" condition.
3. Connect the red wire to the positive terminal of the battery first.
4. Next, connect the black wire to the negative terminal of the battery.



5. Smear the terminals with petroleum jelly. (Do not use grease in the battery terminals).
6. Place the terminal boot/cap properly.
7. Refit the battery bracket.
8. Reconnect the harness connector to the respective couplers on the battery located area.
9. Refit the right side panel.
10. Reassemble the seat.

NOTE

1. Clean the wire terminals free of corrosion and keep the terminals coated with petroleum jelly.
2. It is not necessary to check the battery electrolyte level or add distilled water as the battery is a maintenance free (sealed type).
3. Your battery is a maintenance free type and can be permanently damaged if the cap strip is removed.

MINOR MAINTENANCE TIPS

CAUTION

Keep the +ve and -ve cables firmly connected to the respective battery terminals. Failure to do so will result in damage to the motorcycle electrical system.

WARNING

Always disconnect the negative (-ve) battery cable first and then the positive (+ve) cable while removing the battery connections. If the positive (+ve) battery cable should contact terminal with the negative (-ve) cable installed, the resulting sparks will cause a battery explosion which could result in serious injury.

Disconnection in the wrong sequence increases the risk of short-circuits. Always proceed in the correct sequence.

WARNING

Battery terminals and internals contain lead and lead components, known to cause cancer and birth defects or other reproductive harm. Always wear approved protective face shield, rubberized gloves and protective clothing when working with batteries. Keep batteries and acid out of reach of children.

Charging the connected battery directly at the battery terminals can damage the vehicle electronics. Always disconnect the battery from the on-board circuits before recharging it with a charger connected directly to the battery posts.

NOTE

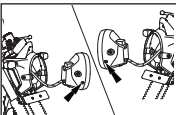
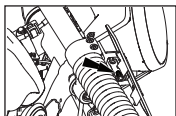
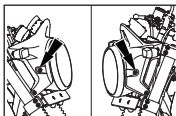
Usage of frequency for motorcycle is very important for battery to be in good performance condition. If the motorcycle is being used very rarely or sparingly and the terminals are not disconnected the battery is bound to lose its charge and result in a dead battery.

MINOR MAINTENANCE TIPS

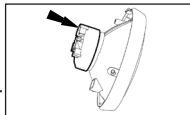
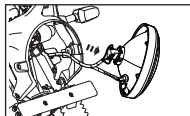
CHANGING ELECTRICAL COMPONENTS

HEADLAMP BULB DISMANTLING

1. Gently loosen the headlamp mounting bolt both sides from headlamp cowl.
2. Gently loosen the third mounting screw in the bottom of the housing and take out the headlamp.
3. Remove the 2 screws holding the head lamp rim to the housing.
4. Gently pullout the headlamp rim along with reflector assembly.
5. Disconnect head lamp coupler.

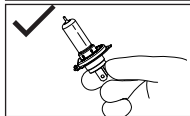
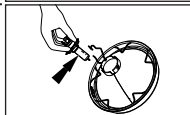


6. Remove the protective rubber cap over the bulb.
7. Gently press the bulb holding clip and release it from the slot in the reflector.
8. Remove the bulb from the reflector.



NOTE

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



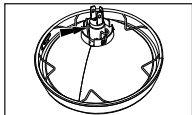
MINOR MAINTENANCE TIPS

HEADLAMP BULB REPLACEMENT

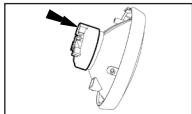
1. Locate the 3 lugs in the bulb correctly in the reflector.



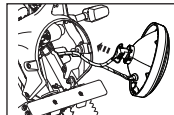
2. Locate the bulb holding clip over the bulb and lock it in the slot in the reflector.



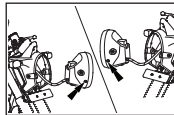
3. Put the protective rubber cap over the bulb correctly such that the vent pipe is facing downwards.



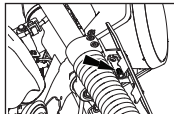
4. Connect head lamp coupler on the bulb terminals correctly.



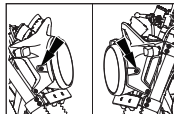
5. Locate the headlamp rim in the housing correctly such that it locks in place



6. The two mounting holes in the rim are aligned with the holes in the housing



7. Assemble the 2 screws and tighten firmly.

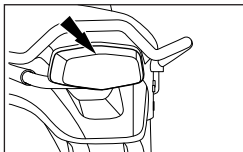


8. Refit the headlamp assembly and ensure the third mounting hole in the bottom of the housing is aligned with the bracket slot.

MINOR MAINTENANCE TIPS

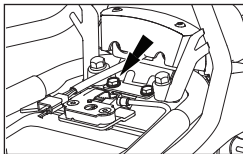
TAIL LAMP BULB

1. Locate key on left side & turn clock wise lift seat and remove.



2. Loosen the tail light assembly mounting bolts.

3. Remove the tail lamp cover by loosen the nuts.

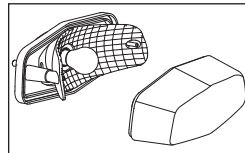


4. Remove the outer lens and reflector safely by unscrewing its mounting screw

5. Hold the bulb, press inside and rotate anticlockwise to remove the tail light bulb from its holder.

6. Replace the bulb 12V 21 / 5W.

7. Assemble back the tail light in the reverse order of dismantling process.



8. Assemble the tail lamp cover and refit the tail lamp assembly.

MINOR MAINTENANCE TIPS

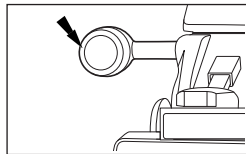
LICENSE PLATE ILLUMINATOR

1. The license plate illuminator has a LED lighting system. In the event of failure, the entire license plate illuminator assembly should be replaced.
2. Contact an authorised Royal Enfield Dealer/Service Centre to replace the same.

TRAFFICATOR BULB REPLACEMENT

1. Remove the screw from the trafficator housing back side.
2. Remove outer lens safety by slightly rotate the housing and outer lens.
3. Remove the bulb holder by turning in anticlockwise direction.
4. Remove the fused bulb by pushing and turning in anticlockwise direction.

5. Position the new bulb inside the holder, ensuring that the pins in the bulb, match with slots in the holder.
6. Push the bulb and turn clockwise direction to lock the bulb in the holder. Refit the bulb holder by turning to clockwise direction.
7. Refit the trafficator cover with reflector and tighten the screw.



NOTE

Do not over tighten the screw.

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

MINOR MAINTENANCE TIPS

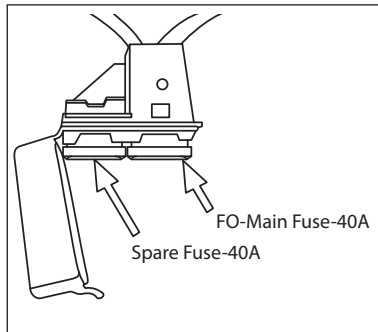
FUSE

1. Remove the RH side panel.
2. Replace the required fuse with the spare fuse available in the fuse carrier.
3. The blade fuses are located in the carrier.

NOTE

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

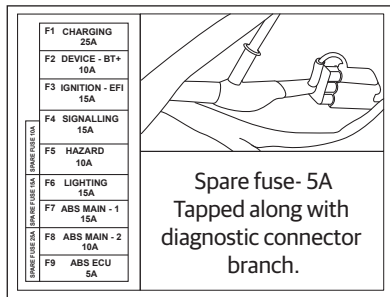
RELAY STARTER- FUSE BOX



MINOR MAINTENANCE TIPS

FUSE & CARRIER

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



NOTE

F2- Device Bt + Fuse -10 A - EMS ECU. Instrument Cluster. Tripper.

F3 -Ignition system -15 A- Relay Coil. EMS ECU. Ignition Coil. Fuel pump. Injector. O2 Sensor. E purge and Diagnostic tool.

F4 -Signalling Fuse -15 A-Instrument Cluster/Trafficator/Stop lamp/Horn/Tripper unit

F6- Lighting Fuse -15 A-Headlamp Low & High Beam. Front Position Lamp. Rear Position Lamp & License Plate Illuminator.

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

MINOR MAINTENANCE TIPS

BLADE FUSE USAGE LIST

ID No.	Function	Rating
F1	CHARGING FUSE	25 A
F2	DEVICE BT + FUSE	10 A
F3	IGNITION SYSTEM	15 A
F4	SIGNALLING FUSE	15 A
F5	HAZARD	10 A
F6	LIGHTING FUSE	15 A

ID No.	Function	Rating
F7	ABS MAIN 1	15 A
F8	ABS MAIN 2	10 A
F9	ABS IGNITION	5 A
SF1	SPARE FUSE 1	10 A
SF2	SPARE FUSE 2	15 A
SF3	SPARE FUSE 3	25 A
SF4	SPARE FUSE 4	5 A

WARNING

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

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

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

LONG TRIP PRECAUTIONS

CHECKS PRIOR TO THE COMMENCEMENT OF LONG JOURNEY

1. Service the motorcycle at a Royal Enfield Authorised Dealer/Service Centre.
2. Ensure sufficient quantity of petrol in the fuel tank for the journey planned.
3. Check and correct tire pressure if necessary.

CHECKS AFTER EVERY 1500 KMS/

932 MILES OF RUN

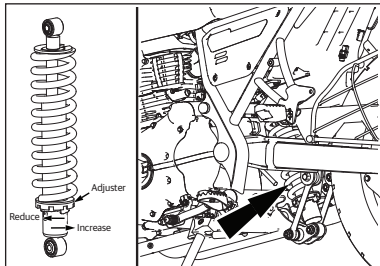
1. Any loose fasteners.
2. Condition of the tires.
3. Correct oil level in engine.
4. Working of all lights and horn.
5. Proper drive chain tension.

ITEMS TO BE CARRIED

1. Tool kit.
2. First aid kit.
3. Bulbs for headlight, trafficator light, Fuse.
4. Accelerator, clutch cables.
5. Rear chain master link lock assembly.
6. Insulation tape.
7. Spark plug, spark plug cap.

SHOCK ABSORBER

SPRING PRELOAD & SHOCK ABSORBER SETTINGS



INCREASING THE PRELOAD

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

REDUCING THE PRELOAD

To decrease the spring preload, turn preload adjuster in the anticlockwise direction.

CAUTION

It is recommended to visit authorised dealer for adjusting spring preload and shock absorber settings.

OFF ROADING

AFTER OFF ROADING

It is recommended to check the following after off roading:

TIRE PRESSURE

1. Tire pressure needs to be optimal for effective riding on surfaced roads.
2. Always check the tire pressures are correct.

BRAKES

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

RIMS

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

SPRING PRELOAD & SHOCK ABSORBER SETTINGS

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

AIR FILTER ELEMENT

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

WASHING PROCEDURE

PRECAUTIONS

1. Wash motorcycle when the engine is cold.
2. Cover the silencer, tail pipe, horn, control switches, instrument cluster & tripper with suitable plastic bags and tie it firmly to prevent water entry.
3. Remove ignition key and seal key hole using adhesive tape.
4. Brush engine area with a solvent to remove dirt or grease.
5. Use low pressure jet of water to clean.
6. Do not spray water directly on the steering stem area as it will damage the bearings and cause the handle bar movement to become sticky.
7. Never spray water with great force on head lamp, speedometer, tripper, flasher lights, front and rear wheel hubs, electrical connections and wires, control cables, cables, sparkplug, battery, ABS ECU, EMS ECU, side mirrors, steering stem etc.
8. Do not apply any corrosive solvent on painted surfaces or rubber parts.
9. Use luke warm water and mild detergent on the painted components to remove dirt, etc.
10. Rinse motorcycle thoroughly with plain water to remove the detergent.
11. If possible, use compressed air and blow off water particles from the hard to reach areas of the motorcycle, electrical connections etc.
12. No direct jet at the edges of decal, electrical parts, coupler joints, silencer tail pipe, radiator lubrication points like steering cone kit, brake pedal, wheel bearings, chain, brake cam & swing arm bushes to be washed in spray mode only (not in jet mode).

WASHING PROCEDURE

13. 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 will 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.
14. It is recommended not to apply the anti corrosion spray on the brake discs.

AFTER WASHING

1. Ensure, the motorcycle is thoroughly dry by wiping with a clean soft lint free absorbent cloth or chamois leather.
2. Remove all adhesive tapes.
3. Lubricate control cables, pivots for footrest, side stand, center stand, brake and gear shifter linkages, drive chain etc. with lube oil.
4. Polish the painted (Except matt finish) and plated surfaces using recommended automobile polishing wax.
5. Start the engine and allow to run at an idling speed for a few minutes to warm up engine.
6. Drive the motorcycle slowly, apply both the brakes intermittently to dry up the water in brake pads.
7. Please clean/wipe out water spills completely inside the RH side panel before keeping tool kit, first aid kit and other relevant documents inside the right side panel.

STORAGE PRECAUTIONS

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

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

WIRING DIAGRAM

DISCLAIMER

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



TROUBLESHOOTING

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

Complaint	Check/Observe	Suggestion/Remedy
Engine does not start	If the ignition/engine kill switch in OFF position	Switch it to ON position
	If inadequate fuel level in fuel tank	Top up the fuel
	If the lights are dim/weak horn sound	Weak or discharged battery/problem in charging circuit, contact authorised service center
	If fuse is blown	<ol style="list-style-type: none">1. Replace the fuse with same rating2. Contact authorised service center if problem persists

TROUBLESHOOTING

Symptom	Observations	Check for/Remedy
Engine does not start	Connection issue with spark plug, cap, high tension cable	Reconnect spark plug, cap and high tension cable
Engine starts but shuts off immediately	If the MIL lamp in cluster is glowing	Contact authorised service center

TROUBLESHOOTING

Symptom	Observations	Check for/Remedy
Engine misfires & runs erratically/ stops	If any adulteration/water in fuel	Contact authorised service center
	If the engine is too hot	Switch "OFF" the engine and allow it to cool down

TROUBLESHOOTING

Symptom	Observations	Check for/Remedy
Poor pickup	If engine RPM raises disproportionately to the vehicle speed	Adjust the clutch free play and contact authorised service center
ABS (Anti lock braking system)	If the ABS lamp is continuously ON	Contact Authorised Service Centre

WARRANTY TERMS & 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. Warranty shall be in force until the expiry of a period of 36 months from the first date of sale to the first customer and to any subsequent owners for the balance of the remaining period until the expiry of 36 months from the date of first sale/ registration of the motorcycle.
2. In order to effect warranty, it is a prerequisite that the maintenance schedule prescribed by Royal Enfield in this Owner's Manual and warranty repairs if any, has been carried out at the authorised distributor's service facility or at their authorised dealership's service facility.
3. Record of all the regular services and periodical maintenance that have been carried out, along with proof of service history will be required to be verified by the authorised distributor's service facility or their authorised dealership's service facility, prior to carrying out a warranty service.
4. Proof of ownership, in the form of sales registration or proof of purchase documentation of the motorcycle, clearly mentioning the engine & VIN numbers, must be provided to the distributor's service facility or their authorised dealership's service facility.

WARRANTY TERMS & CONDITIONS

5. During the warranty period, RE's obligations shall be limited to repairing/replacing part(s) of the motorcycle for free, only if the part is on examination is deemed to have a manufacturing defect. Defective part(s) which have been replaced will become the sole property of Royal Enfield (RE).
6. Consumables like oil, oil filter, fuel etc., used during warranty repair/replacement are not covered and chargeable to the customer.
7. Claims on proprietary items like tires, tubes, spark plug, battery etc., should be taken up with the respective manufacturer or their authorised agents in the area directly by the customer. Royal Enfield (RE) shall not be liable in any manner to replace them through their dealers. Royal Enfield (RE) will, however provide assistance in referring such claims on the respective manufacturer.
8. Warranty shall not apply to:
 - (a) Normal ageing, deterioration or rusting of plated parts, paints coat, rubber parts, soft items, glass items, plastic parts etc.
 - (b) Components like fuel filter, oil filter, air filter paper element, control cables, brake shoes/brake pads, clutch plates, drive chain & sprocket kit, steering ball races, electrical equipment, wiring harness etc., which are subjected to normal wear and tear.
 - (c) Failures occurred due to use of non recommended grade lubricants, fuel or improper level.
 - (d) Damages due to use of non-genuine parts, lack of proper maintenance, incorrect riding habits.
 - (e) Damages to engine management system parts (like ECU, throttle body, sensors, etc..) due to tampering which affects the performance of the motorcycle.
 - (f) Parts damaged due to accidents, collision, abuse etc.

WARRANTY TERMS & CONDITIONS

- (g) Irregularities not recognised as affecting the quality or function of the motorcycle such as slight vibration, Oil leakage, discoloration of exhaust pipe bend and cat region/silencer/soft or hard shock absorber etc.
 - (h) 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 components like bulbs, fuses etc., and electronic components failure due to repairs by arc welding.
 - (l) Normal maintenance operations like adjustment of brakes, cleaning fuel system, engine tune-up and other such adjustments.
 - (m) Oxidization of buffed/painted/powder coated items etc.
 - (n) Motorcycles fitted with sidecars and trailer hitches.
9. Use only Royal Enfield approved parts and accessories. Use of certain other manufacturer's performance parts will void your new motorcycle warranty.
 10. Royal Enfield (RE) reserves the right to finally decide on all warranty claims.
 11. Royal Enfield (RE) reserves the right to make changes in design of the motorcycle without any obligation to install these changes on previously supplied motorcycles.

EMISSION CONTROL SYSTEM WARRANTY

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board and Royal Enfield Motor Company are pleased to explain the emission control system warranty on your new motorcycle. In California, new motor vehicles must be designed, built and equipped to meet the state's stringent anti-smog standards. Royal Enfield motor company must warrant the emission control system on your motorcycle for the periods of time listed below provided there has been no abuse, unapproved modification, neglect or improper maintenance of your motorcycle.

Your emission control system may include parts such as the carburetor or fuel-injection system, the ignition system, catalytic converter, and engine computer. Also included may be hoses, connectors and other emission-related assemblies. Where a warrantable condition exists, within the warranty period noted below, your authorized Royal Enfield Dealer will repair your motorcycle at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE

For a period of use of five years or 30,000 km (18641 mi), whichever first occurs, beginning on the date the motorcycle is delivered to the ultimate purchaser or, if the motorcycle is placed in service as a demonstrator or company motorcycle prior to sale at retail, the date it is first placed in service.

If any emission related part on your motorcycle is defective, the part will be repaired or replaced by Royal Enfield Motor Company. This is your emission control system defects warranty.

OWNER'S WARRANTY RESPONSIBILITIES

As the motorcycle owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual. Royal Enfield recommends that you retain all receipts covering maintenance on your motorcycle, but Royal Enfield cannot deny emissions warranty coverage solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

EMISSION CONTROL SYSTEM WARRANTY

You are responsible for presenting your motorcycle to an authorized Royal Enfield Dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

As the motorcycle owner, you should also be aware that Royal Enfield may deny you warranty coverage if your motorcycle or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

If you have any questions regarding your warranty rights and responsibilities, you should contact Royal Enfield customer service department at 1-800-258-2464 (U.S. only) or

1-414- 343-4056, or the California Air Resources Board at 9528 Telstar Ave., El Monte, California 91731.

ADDITIONAL WARRANTY TERMS

The warranty period starts the date the motorcycle is delivered to the ultimate purchaser or, if the motorcycle is placed in service as a demonstrator or company motorcycle prior to sale at retail, the date it is first placed in service.

The emission control system of each new Royal Enfield Motorcycle was designed, built and tested using only Genuine Royal Enfield parts and with these parts the motorcycle is certified as being in conformity with California emission control regulations.

We recommend that you take your motorcycle to an authorized Royal Enfield Dealer for repairs under this warranty. The dealer has factory-trained mechanics and genuine Royal Enfield parts. However, in the case of an "emergency" (as defined below), you could have repairs performed at any available service establishment or by the owner, using any replacement part. An authorized Royal Enfield Dealer not being reasonably available, or a part not being available within a reasonable time period (not

EMISSION CONTROL SYSTEM WARRANTY

to exceed 30 days from the time the motorcycle is initially presented to a Royal Enfield Dealer for repair) constitutes an emergency. Royal Enfield will reimburse the owner for such repairs, including diagnosis, only if it is established that the repairs are covered under this emission warranty. Royal Enfield's parts reimbursement, however, will not exceed our suggested retail price for all warranted parts replaced and our labor reimbursement will be limited to our recommended time allowances for emission system repairs at the geographically appropriate hourly labor rate.

To obtain reimbursement from Royal Enfield for such emergency repairs, you must keep all failed parts and original receipts, so you can present them to an authorized Royal Enfield dealer for inspection. Royal Enfield recommends that you bring your motorcycle to an authorized dealer for inspection to ensure that the emergency repairs were done properly.

Remember : Use of non-Royal Enfield replacement parts may impair the effectiveness of the emission control system or

otherwise damage your motorcycle. If other than genuine Royal Enfield parts are used for maintenance, replacement or repair of components affecting emission control, you should obtain written assurances that such non-Royal Enfield parts are warranted by their manufacturer to be equal in quality to Genuine Royal Enfield parts in both performance and durability. The use of non-Royal Enfield replacement parts does not invalidate the existing warranty, if any, on other Royal Enfield components unless the non-Royal Enfield parts cause damage to warranted parts or result in the creation of an emissions non-compliant motorcycle. However, Royal Enfield assumes no liability under this warranty with respect to any parts which are not genuine Royal Enfield parts, unless Royal Enfield parts cause damage to non-genuine Royal Enfield parts.

EMISSION CONTROL SYSTEM WARRANTY

WHAT IS COVERED BY THIS EMISSION WARRANTY

The emission control system warranty covers the following "warranted parts" only:

Air cleaner assembly, cam shaft, spark plug, ignition coil, ignition wires, vapor valve, catalytic converter, crankcase breather, MAP sensor, TMAP sensor, intake air temperature sensor, throttle position sensor, fuel injectors, induction module or throttle body, engine temperature sensor, electronic control unit, oxygen sensors, carbon canister, purge control valve, fuel tank (non-cosmetic failures only), leaks, fuel vapor separator, fuel cap, If used on the above: hoses, clamps, fittings, tubing, sealing gaskets and mounting hardware.

WHAT IS NOT COVERED BY THIS EMISSION WARRANTY

The emission control system warranty does not cover: Malfunctions in any "Warranted parts" caused by any of the following: abuse, misuse, unapproved modification or alteration, tampering, disconnection, or improper or inadequate maintenance. The warranty also does not cover replacement of listed parts in the event that the vehicle has been rendered emissions non-compliant in the state of California through actions noted above.

Damage resulting from accident, acts of nature or other events beyond the control of Royal Enfield.

EMISSION CONTROL SYSTEM WARRANTY

The repair or replacement of "Warranted parts" which are scheduled for replacement prior to 30,000 km (18641 mi), once these parts have been replaced at the first replacement interval as part of required maintenance services.

Repairs and services performed by anyone other than an authorized Royal Enfield Dealer(Except in case of emergency as defined above).

Loss of time, inconvenience, loss of use of the motorcycle, towing of the vehicle, or commercial loss and/or consequential damages.

Repairs on any motorcycle of which odometer mileage has been changed so that mileage cannot be readily determined.

NOISE CONTROL SYSTEM WARRANTY

The following warranty applies to the noise control system and is in addition to the limited warranty, emission control system warranty & California Air Resources Board regulations. Evaporative emission control system warranty. (Applicable only for motorcycles sold within the state of California.)

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 U.S. Federal Environmental Protection Agency and California Air Resources Board regulations, that the noise control system emission related parts fitted to this motorcycle are free from defects in materials and workmanship which may cause this motorcycle not to meet the U.S. Federal environmental protection agency standards for a period of 5 years or 18,641 Miles (30,000 kms.), whichever occurs first, from the date of first use of the motorcycle.

The Warranty period shall begin, 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 items are not covered by the noise 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 or removing or modifying any portion of the noise control system (Consisting of exhaust, air intake/cleaner assembly) with parts not certified to be genuine and noise legal in the USA for street use.
3. Loss of time, inconvenience, loss of motorcycle use or any other consequential loss or damages.

NOISE CONTROL SYSTEM WARRANTY

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.

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 noise control systems should be performed only by an authorised Royal Enfield Service Dealer and using only genuine Royal Enfield spare parts.

Repairs to the noise control system may be performed by any other qualified service outlet or individual and use of parts other than genuine Royal Enfield supplied parts is permissible, only if such agency or individuals and the non genuine parts used are certified to comply with the U.S. Environmental Protection Agency standards.

EVAPORATIVE EMISSION CONTROL SYSTEM WARRANTY

(Applicable only for the state of California)

The following warranty applies to the evaporative emission control system and is in addition to the limited warranty.

EMISSION CONTROL SYSTEM WARRANTY & NOISE CONTROL SYSTEM WARRANTY.

Royal Enfield motors warrants the first owner and each subsequent owner, that this motorcycle is designed and built so as to conform, at the time of sale, with applicable regulations specified by the California air resources board and that the evaporative emission control system related parts fitted to this motorcycle are free from defects in materials and workmanship which may cause this motorcycle not to meet applicable regulations of the California air resources "Board standards, for a period of 5 years or 18,641 Miles (30,000 Krns.), whichever occurs first, 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 ITEMS 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 or removing or modifying any portion of the evaporative emission control system (consisting of fuel tank, fuel tank cap, canister, purge valve, throttle body, vapor hoses, fuel hoses and hose connectors) with parts not certified to be genuine and approved by California Air Resources Board
3. Loss of time, inconvenience, loss of motorcycle use or any other consequential loss or damages.

EVAPORATIVE EMISSION CONTROL SYSTEM WARRANTY

4. Any motorcycle in which the odometer has been tampered with, or the speedo cable has been disconnected for any reason or is broken and not replaced immediately, due to which the exact distance covered cannot be determined.
5. Normal ageing of parts such as fuel hoses, vapor hoses, gaskets 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 Dealer and using only genuine Royal Enfield spare parts.

Repairs to the evaporative emission control system may be performed by any other qualified service outlet or individual and use of parts other than genuine Royal Enfield supplied parts is permissible, only if such agency or individuals and the non genuine parts used. Are certified to comply with the California Air Resources Board.

ENVIRONMENT CARE

BE AN ENVIRONMENTALLY CONSCIOUS RIDER

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

ENGINE OIL

While your liquid waste like engine oil, gasoline, coolant and other cleaning solvents need to be regularly replaced, what happens to them? Make sure they are not dumped in the soil, down the sewers, drains, lakes or rivers around you. The simplest way to do it is to have them drained into a container which you can hand over to your local recycling agent or at your nearest Royal Enfield Service Centre. They will follow the guidelines laid down by the local authorities to get rid of it.

BATTERY

If your Royal Enfield's battery needs to be replaced, hand it over to an authorised recycling agent or Royal Enfield Service Centre. They will follow the guidelines laid down by the local authorities to get rid of it. This will ensure the dangerous substances from which the battery has been manufactured do not pollute the environment.

TIRE(S)/PLASTIC/ELECTRICAL/ELECTRONIC

PARTS/OIL FILTER

If your Royal Enfield's tire(s)/plastic/electrical/electronic part(s)/oil filter need to be replaced make sure you hand them over to an authorised recycling agent or a Royal Enfield Service Centre. They will follow the local authority's guidelines to get rid of them in an environmentally friendly manner.

ENVIRONMENT CARE

CLEANING YOUR ROYAL ENFIELD

Avoid aerosol sprays; instead, use a biodegradable detergent or dry wash to wash your Royal Enfield. Also, be cautious while discarding the cleaning solvents. Hand them over to an authorised recycling agent or a Royal Enfield service centre. They will follow the local authority's guidelines to get rid of them in an environmentally friendly manner.

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

RADIO TYPE APPROVAL

TRIPPER / NAVIGATION DISPLAY UNIT - USA

FCC ID : NT8 - JDCP

FCC § 15.19 Labelling requirements

This device complies with part 15 of the FCC Rules and Innovation, Science and Economic Development Canada (ISED) license-exempt RSS standard(s).



Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

FCC § 15.21 Information to user

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC §15.105 statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

RADIO TYPE APPROVAL

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Requirements

To comply with FCC RF exposure compliance requirements, the device must be installed to provide a separation distance of at least 20 cm from all persons.

SERVICE MAINTENANCE RECORD

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

NOTES

NOTES



ROYAL ENFIELD

Part No. RAM00466/A

WWW.ROYALENFIELD.COM

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