



ROYAL ENFIELD

ROYALENFIELD.COM

THUNDERBIRD 350

**ROYAL  
ENFIELD  
OWNER'S  
MANUAL**



# Notice

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

## Service Headquarters

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Applicable for STONE BLACK Colour

## DISCLAIMER

Care needs to be taken as instructed below in order to ensure a longer life for the paint.

1. Do not polish your motorcycle as it increases gloss.
  2. Wash only with plain water.
  3. Scratches or marks cannot be removed.
- No warranty for STONE BLACK colour.

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Part No.594069/B/ Qty.1000 / April'2014

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# Personal & Vehicle Information

Name													
Door No./Street													
Locality		State				Pin							
City													
Contact No.	Res:						Mobile:						
	Office:						Email:						
Engine No.							Battery No.						
Frame No.							Battery make						
Reg. No.							Licence No.						
Date of Sale							Valid till date						
Model							Key No.						
Tyre make							Colour						
Sold by							Dealer Code						

Vehicle Installation Form (VIF) No.													
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# Free Service Record

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It is our endeavour to provide excellent service to your THUNDERBIRD 350 at all times. Towards this we provide 4 free services at specific Intervals

Please avail these services at the specified time, in any of the Royal Enfield Dealerships / Authorised service points nearest to you and as a token of satisfactory services, Kindly return the free service coupon duly filled in and signed, to the service outlet.

Availing the free services in the specified time is a prerequisite for warranty consideration. The costs of fuel, oil, grease etc. used for all services are chargeable to the customer.

	1st Service					2nd Service					3rd Service					4th Service				
Date of Service																				
Kms Covered																				
Servicing ASP / Dealer's Name Address																				

NOTE: Please ensure that the free service details are recorded in this sheet immediately after the service is carried out.

# Technical Specification

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## Engine

Engine. ....	4 Stroke, air cooled, single cylinder, OHV, SI Engine
Capacity .....	346 cc (Displacement)
Bore .....	70 mm
Stroke .....	90 mm
Compression ratio .....	8.5 : 1
Max. Power @ RPM .....	19.8 BHP @ 5250 rpm
Max. Torque @ RPM .....	28 Nm @ 4000 rpm
Air Filter Element .....	Corrugated Paper Element
Engine Oil Capacity .....	2.75 Litres.
Lubrication .....	Forced Lubrication, Wet Sump
Engine Oil Grade .....	ROYAL ENFIELD 15W50 API SL, JASO MA
Cooling system .....	Natural Air Flow
Fuel Supply .....	Carburetor (UCAL-BS 29)



# Technical Specification

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## IGNITION SYSTEM

Ignition system .....	Digital Dual Spark Ignition, TCI System
Spark plug Electrode gap .....	0.70 to 0.80 mm
Spark plug .....	WR5DC M14 (Bosch Super), UR5DC M10 (Bosch Super)

## TRANSMISSION

Clutch.....	Wet Multiplate (6 Plates)
Primary drive .....	Duplex Chain
Primary Drive Ratio .....	2.15 : 1
Gear box .....	Constant Mesh 5 Speed
Gear shift pattern .....	1 - N - 2 - 3 - 4 - 5
Gear Ratios .....	1st-3.06:1 2nd-2.01:1 3rd-1.52:1 4th-1.21:1 5th-1:1
Final Drive .....	F.D. Sprocket 16 Teeth & Rr. SPKT 38T
Final ratio .....	2.375:1
Drive Chain links .....	102 links

# Technical Specification

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## ELECTRICALS

Generation .....	Alternator
System.....	12V DC
Battery .....	12V – 14AH MF
Head lamp .....	Projection type head lamp, H7 bulb 55 & 55 W with LED light guide ring.
Brake / Tail lamp .....	LED lamp with position light guides
Turn signal / Hazard warning .....	12V - 10 W, 4 Nos.
Instrument Cluster .....	Digital cluster with LCD panel
High beam Indicator .....	LED, 12V - 1 No.
Turn Signal Indicator .....	LED, 12V - 2 Nos.
Hazard Indicator .....	LED, 12V - 1 No.
Position Indicator .....	LED, 12V - 1 No.
Neutral Indicator.....	12V - 1.4 W, 1 No.
Side Stand Indicator .....	12V - 1.4 W, 1 No.
Horn (Dual) .....	12V, 2.5 Amp (Max.) X 2 nos.
Starter Motor .....	12V, 0.7 KW



### WARNING

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

# Technical Specification

---

## CHASSIS

Frame .....	Single Down Tube, Using engine as stressed member.
Tyre size .....	<b>Front:</b> 90 / 90- 19" - 52 P <b>Rear:</b> 120/80 - 18" -62 P
Tyre pressure .....	<b>Front-</b> Solo: 1.41 Kg/cm <sup>2</sup> (20 PSI) <b>Pillion:</b> 1.55 Kg/cm <sup>2</sup> (22 PSI) <b>Rear-</b> Solo: 2.11 Kg/cm <sup>2</sup> (30 PSI) <b>Pillion:</b> 2.25 Kg/cm <sup>2</sup> (32 PSI)
Fuel tank capacity .....	19 Litres ***
Low fuel warning .....	Last bar blink system 5.5 ± 0.50 ltrs approx.
Dead stock of petrol (unusable fuel) ...	0.5 litre approx.
Suspension .....	<b>Front:</b> Inline - Telescopic Fork (Dia 41 mm), Hyd. Damping Stroke 130mm <b>Rear:</b> Rigid Oval Section Swing arm with gas filled shock absorbers Stroke 80 mm (5 Steps Adjustable)
Front fork oil capacity .....	430 ± 3 ml per leg
Front fork oil .....	Gabriel front fork (1F Grade) oil
Brakes .....	<b>Front Brake :</b> 280mm Ventilated Disc, Double piston caliper <b>Rear Brake :</b> 240mm Ventilated Disc , Single piston caliper

\*\*\*Fuel tank is not a measuring instrument.  
The capacity of tank may vary slightly from specified value.

# Technical Specification

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Brake oil capacity.....	<b>Front:</b> 60ml <b>Rear:</b> 100ml
Brake oil grade .....	DOT 3 or DOT 4

## DIMENSIONS

Length .....	2060 mm
Width .....	790 mm
Height .....	1205 mm
Wheel base .....	1350 mm
Saddle height .....	775 mm
Ground clearance .....	140 mm

## WEIGHTS

Kerb Weight (with 90% Fuel) .....	192 Kg
Max pay load .....	180 Kg

## NOTE:

1. Above Values / Dimensions are given for your guidelines / reference only.
2. In view of continuous improvements being done on our products, the specifications are subject to change without notice.



# Safety Definitions

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



## **Warning**

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

## **CAUTION :**

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

## **NOTE :**

Indicates important and useful messages for clear understanding.

# All India Road Signs

## MANDATORY SIGNS



CLOSED



One-way Street



No-parking Zone



Use of sound signals prohibited



Speed Limit



Overtaking Prohibited



DEAD SLOW



Drive dead slow main road ahead

## INFORMATION SIGNS



End of speed limit



Parking place



No-Parking Zone

## CAUTIONARY SIGNS



Road ahead zigzag towards right



Road ahead zigzag towards left



cross-roads ahead



Sharp bend ahead towards right



Sharp bend ahead towards left



Dead-end ahead



Side road ahead to right



Side road ahead to Left



Hair-Pin bend ahead towards right



Hair-Pin bend ahead towards left



Narrow bridge ahead



Steep hill ahead



Rough road ahead



Guarded level-crossing ahead



unguarded level-crossing ahead



Ferry Crossing ahead



School ahead

# Safe Riding Tips / Guidelines

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- Before operating your new motorcycle, it is your responsibility to carefully read and follow the operating and maintenance instructions detailed in this manual for your own safety, your motorcycle and that of others.
- Know and respect the rules of the road. Be a safe rider for your own safety and for other road users.
- Before starting the motorcycle, check for proper operation of brakes, clutch, gear shifter, handle bar controls, tyre pressures, fuel and oil levels.
- 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 dealer for details.
- Whenever refuelling your motorcycle, please exercise utmost caution and carefully observe the following rules.
  - DO NOT smoke and please ensure that there are no open flames or sparks near the motorcycle, when refuelling or servicing the fuel system.
  - Switch OFF mobile phones and other hand held electronic devices. Open the fuel filler cap slowly.
  - Refuel in a well ventilated area with the engine turned off.
  - DO NOT fill the tank to its brim. Please fill fuel only till the bottom of the filler neck insert, so as to leave air space in the fuel tank to allow for fuel expansion.



## 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.

# Safe Riding Tips / Guidelines

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- A new motorcycle must be operated according to the special running-in-procedure. (Ref Page No.40)
- Operate motorcycle only at moderate speeds and out of traffic until you have become thoroughly familiar with its operation and handling characteristics under all conditions.
- DO NOT exceed the legal speed limit or drive too fast for existing conditions. Always reduce speed when poor driving conditions exist. High speed increases the influence of any other condition affecting stability and increases the possibility of loss of control.

## NOTE:

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

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

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

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

- 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 vehicle fails to see or recognize a motorcycle and turns into the oncoming motorcyclist.

# Safe Riding Tips / Guidelines

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- Wear an ISI approved helmet, clothing, and foot gear suited for riding a motorcycle. Bright or light colours are best for greater visibility in traffic, specially at night. Avoid loose, flowing garments and scarves.
- When carrying a pillion rider, it is your responsibility to instruct them on proper riding procedures.
- DO NOT allow other individuals, under any circumstances, to operate your motorcycle unless you know they are experienced, licensed riders and are thoroughly familiar with the operating conditions of your motorcycle.

## **Warning**

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

## **Warning**

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

## **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.

# Safe Riding Tips / Guidelines

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## Warning

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



## Warning

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



## Warning

Consult your Royal Enfield 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.



## Warning

DO NOT tow a disabled motorcycle. The steering and handling of 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.



## Warning

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

# Safe & Happy Riding

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## RIDING DRESS

- Please wear proper riding apparel.
- A pair of riding boots or shoes.
- Soft leather gloves.
- Goggles or spectacles to safe guard eyes.
- ISI certified helmet. Affix light reflecting strips of radium stickers at the front and rear.

## NOTE

A light coloured shirt enables greater visibility to other road users specially during nights.

## CAUTION

Loose clothing may get caught on moving parts of your motorcycle.

## SITTING POSTURE

Correct sitting posture is a pre-requisite for stable and safe riding.

- Sit straight with your shoulders completely relaxed.
- Keep your elbows close to your body.

- Keep your toes in straight ahead direction.
- Slightly grip the petrol tank with both knees.
- Hold the handle bar grips, close to its inner end.
- Look extensively ahead, including rear view mirrors, without turning the head.

## BRAKING

- Apply front and rear brakes gently and simultaneously for maximum braking efficiency.



### Warning

Applying any one of the brakes suddenly may cause the vehicle to skid. The hydraulic disc brakes fitted on your motorcycle require very less effort. High effort or sudden application may lock the wheel. Please use utmost caution while applying the brakes.

- While riding on wet or bad road conditions use brakes cautiously.
- Avoid excessive banking, otherwise footrest may touch the ground and cause instability.

# Rules of the Road

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- Be sure your number plate is installed in the position specified by law and is clearly visible at all times.
- Ride at a safe speed that is consistent with the type of road surface you are on. Pay strict attention to whether the surface is:
  - Dry
  - Oily
  - Icy
  - Wet
- Watch for loose debris, such as leaves, slippery substances or loose gravel that can hamper the stability of your vehicle.
- DO NOT exceed the legal speed limit or drive too fast for existing conditions. Always reduce speed when poor driving conditions exist. High speed increases the influence of any other condition affecting stability and increases the possibility of loss of control.
- Keep to the correct side of the road center line when meeting oncoming vehicle.
- Always sound your horn, actuate your turn signals and exercise caution when passing other vehicles going in the same direction. Never try to pass another vehicle going in the same direction at street intersections, on curves, or when going up/or down a hill.
- At street intersection give the right-of-way to the vehicle on your left or right. DO NOT presume you have the right-of-way.
- Always signal when preparing to stop, turn or pass.
- While turning either right or left, watch for pedestrians, animals, as well as vehicles.
- All traffic signs, including manual controls at intersections, should be obeyed promptly. SLOW DOWN at traffic signs near schools and CAUTION signs at railroad crossings.
- When intending to turn, signal at least 100 feet (30.5 meters) before reaching the turning. Be close to the center line (unless local rules require otherwise), slow down and then turn carefully.



# Rules of the Road

---

- Never jump a traffic light. When a change is imminent from GO to STOP (or vice versa) at intersections, slow down and wait for the light to change to green. Never run through a yellow or red traffic light.



- DO NOT leave the curb or parking area without signalling. Be sure your way is clear to enter moving traffic. A moving line of traffic always has the right-of-way.
- Park your motorcycle on a firm and flat surface to prevent it from falling over.
- Protect your motorcycle against theft. After parking Your motorcycle, lock the steering head.

## SIDE VIEW MIRRORS



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

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

### **NOTE:**

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

# Vehicle Identification

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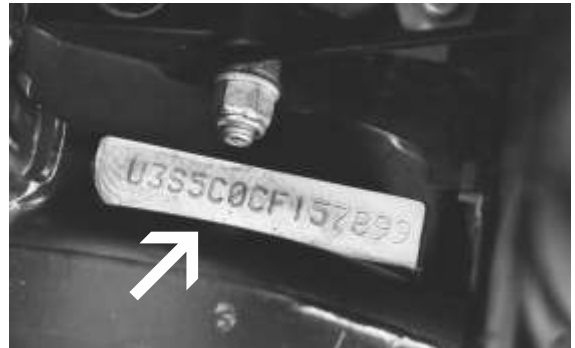
## Chassis Number

Punched on the steering head tube



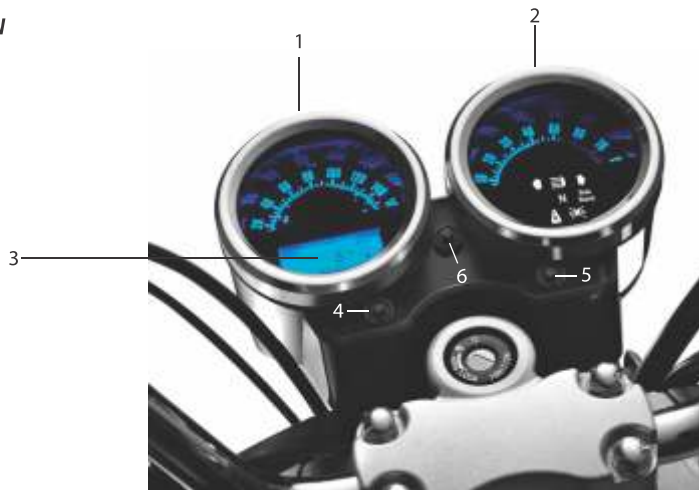
## Engine Number








Punched on the crankcase LH (Top Side)



# Key Parts Location

TOP VIEW



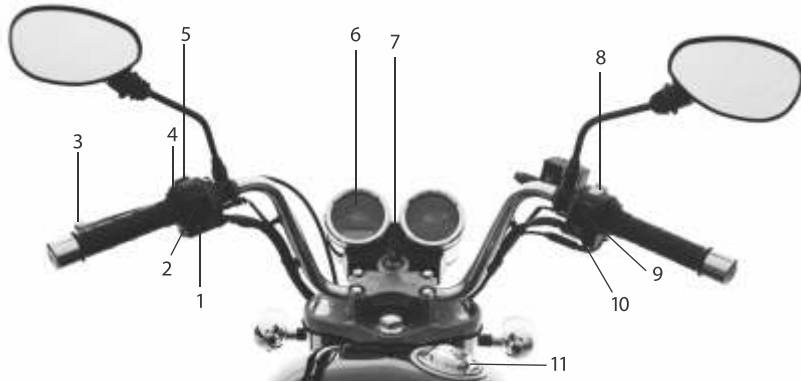
	Turn Signal Indicator LH
	Turn Signal Indicator RH
	High Beam Indicator
	Neutral Indicator
	Hazard Warning Indicator
	Parking Lamp Indicator
	Side Stand Indicator

1. Speedometer	4. Select Button
2. RPM Meter	5. Set Button
3. Alpha - Numeric Display Unit	6. Hazard Button

# Key Parts Location

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## TOP VIEW



1. Horn Button	5. Head Lamp Dip Switch	9. Pilot Head Light Switch
2. Turn Signal Switch	6. Speedometer	10. E-Start Switch Button
3. Clutch Lever	7. Ignition Switch	11. Fuel Tank Cap
4. Day Flash Switch	8. Engine Kill Switch	

# Key Parts Location

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## RIGHT SIDE VIEW



1. RH Trafficator Front
2. Brake Pedal
3. Starter Motor
4. Air Filter Box (Side Panel)
5. Utility Box (Tool kit)
6. RH Trafficator Rear

# Key Parts Location

LEFT SIDE VIEW



1. LH Trafficator Front
2. Horn
3. Gear Change Pedal
4. Spark Plug
5. Battery Cover
6. Side Stand
7. Centre Stand
8. LH Trafficator Rear
9. Utility Box

# Operation of Control

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## ON

Insert ignition key and turn clockwise direction to "ON". Once you turn on the ignition key all the indicating lights in instrument cluster starts glowing on for few seconds and engine is ready to start.



The key cannot be removed in "ON" condition.

## OFF

Turn the ignition key in anticlockwise direction to "OFF". Once you turn off, all the electrical systems goes off.



Now the key can be removed.

## Steering lock

Turn the handle bar to extreme left or right position.



Push the key inside in "OFF" position, further turn anticlockwise direction to lock the steering system.

The key can be removed.

## Steering unlock

Push the key in steering lock Position, further turn clockwise direction to unlock the steering.



The key can be removed.

# Operation of Control

---

## Caution

Protect your motorcycle against theft. After parking your Motorcycle and lock the steering, then remove the key from combination switch.

Do not lubricate barrel locks with petroleum based lubricants or graphite. Inoperative locks may result in damage to your vehicle.

## Fuel Tank

Turn key clockwise to open. Press cap to lock with key in position.



## Note

Key can be removed only on locked position. Use high quality unleaded high octane petrol (>87 octane and above) for enhanced performance.

## Side Panel / Battery Cover.

Turn key clockwise to open side panel. Key cannot be removed.

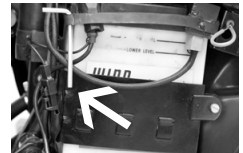


## Side Decor

For removing LH or RH side decor by removing the screw using 4 mm allen key.



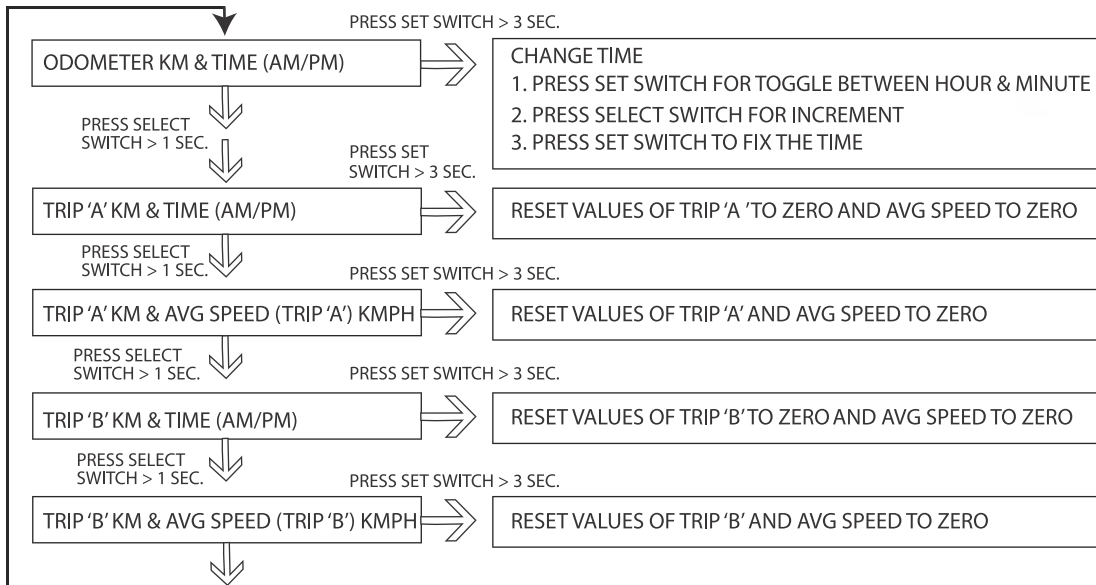
The Allen key is located in the battery carrier rubber strap as shown in fig.





# Operation of Control

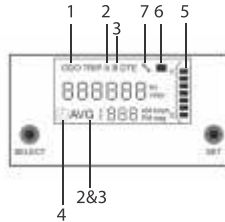
## Instrument Cluster Display Pattern



# Operation of Control

## Alpha-Numeric display unit

1. Odometer
2. Trip A /AVG speed of Trip A
3. Trip B /AVG speed of Trip B
4. Clock
5. Fuel level indicator
6. Battery low voltage indicator
7. Service Reminder



## Odometer Mode

Odometer mode is an initial mode. It displays odometer and time.



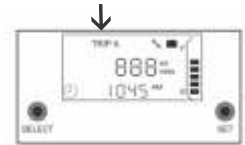
## Note

Once you turn "ON" the ignition key, whatever the last selection mode will display. If the current display mode in "TRIP A", you just off the ignition key.

Once you turn the ignition key the display mode remaining same.

## Trip Meter Mode

A brief push (less than one second) on the "SELECT" button switches the display from odometer to Trip meter (TRIP A).



## Trip Meter AVG Speed Mode

Again press the "SELECT" button switches the display from "TRIP A" to "TRIP A AVG"

Again press the "SELECT" button switches the display from "TRIP A AVG" to "TRIP B"

Again press the "SELECT" button switches the display from "TRIP B" to "TRIP B AVG"



# Operation of Control

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## Note

After running of One Kilometer only, AVG TRIP A/B Speed will be displayed.

## Reset Trip Meter

1. Change TRIP A/B as a current mode.
2. Press the "SET" button (more than 3 Seconds).
3. Automatically the display will be zero.

## Clock

The clock indicates the Hours/Minutes and AM/PM.



## Reset Clock

1. Change Odometer/as a current mode.
2. Press the "SET" button (more then 3 Seconds).
3. The Hours will be blinking, and press the "SELECT" button to change the Hours.

4. Again press the "SET" button (more than 3 seconds).
5. The Minutes will be blinking, then press the "SELECT" button to change the Minutes.

## Note

Once you press the "SELECT" button the Hours/Minutes will increase in ascending order only, it will not decrease. The Hour/Minutes blinks less than 1 minute, within the time limit you have to reset the clock otherwise it will come out from the reset mode.

## Fuel level Indicator

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

The display bars of the fuel meter disappears towards the Empty (E) if the fuel level decreases. When last bar will start blinks, (Fuel Capacity is less than 5.5 Ltrs) refuel as soon as possible.

# Operation of Control

## Note

If the last bar of the fuel meter is blinking continuously after fueling, visit the Royal Enfield authorised dealer to check the electrical system.



## Battery low voltage Indicator

Once switch "ON" the ignition key, after 7 seconds only battery indicator will indicate. If the battery voltage is less than 12 volts, it will start blinking.



In running condition the battery voltage is below 12 Volts in 3 seconds continuously, the battery indicator will start blinking.

## Service Reminder

The service reminder indicates that if your bike is due for service.

The service reminder symbol will start blinking Kilometers ranges as shown below:



Service Due	Kilometers
1	450
2	2900
3	5900
4	8900

## Warning

Do not change the setting while riding, it may cause loss of control leading to an accident.

## Note

During this Service Reminder Blink you are advised to visit Dealer Workshop / ASP for availing respective Free / Paid services.

# Operation of Control

---

## HEAD LAMP SWITCH



OFF



PILOT LIGHT ON



ON

---

## HEAD LAMP DAY FLASH



PRESS FOR HEAD LIGHT FLASH

## DIP SWITCH



LOW BEAM



HIGH BEAM

# Operation of Control

---

**ENGINE START SWITCH**



**PRESS**

**ENGINE STOP SWITCH**



**ENGINE 'ON'**



**ENGINE 'OFF'**

**TURN SIGNAL SWITCH**



**OFF (PUSH TO OFF)**



**LEFT**



**RIGHT**

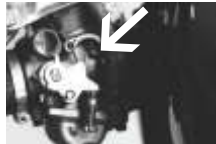
# Operation of Control

---

**HORN**



**CHOKE**



**FUEL TAP**

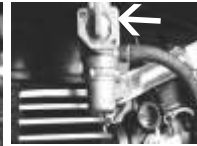
ON



OFF



RESERVE



---

**HAZARD SIGNAL BUTTON**



**SELECT BUTTON**



**SET BUTTON**



# Operation of Control

## PILLION SEAT REMOVING & REFITTING

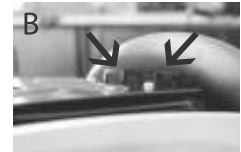
### SEAT REMOVING

1. Remove the battery cover (side panel LH).
2. There are 2 cable hooks, Black & Yellow on right side of the battery (below the hook, Index mark "R" - Rider & "P" - Pillion).
3. Pull out the Yellow hook to remove Pillion seat.
4. Pull the seat backwards and remove.



### SEAT REFITTING

1. Insert the pillion seat bottom lugs (fig. A) into the slots provided in the chassis top cover plate as shown (fig. B)
2. Align (fig. C) & press the Pillion seat gently to lock in seat catcher lock (fig. D).



### Warning

Check the pillion seat for proper fitment. Refix the side panel properly and lock it.



# Operation of Control

## RIDER SEAT REMOVING & REFITTING

### SEAT REMOVING

1. Remove the battery cover (side panel LH).
2. There are 2 cable hooks, Black & Yellow on right side of the battery (below the hook, Index mark "R" - Rider & "P" - Pillion).
3. Pull out the Black hook to remove Rider seat.
4. Pull the seat backwards and remove.



### SEAT REFITTING

1. Insert the rider seat bottom lugs (fig. A) into the slots provided in the chassis top cover plate as shown (fig. B)
2. Align (fig. C) & press the rider seat gently to lock in seat catcher lock (fig. D).



**Warning**

Check the rider seat for proper fitment.

# Notes

---

# Pre Operational Checks

---

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

1. Tyres for correct pressure, abrasions or cuts.
2. Rear chain for proper tension.
3. Brakes, steering and throttle for responsiveness.
4. Cable for fraying or crimping and free operation.
5. Engine oil level.
6. Wheel spoke for proper tightness, no breakage.
7. Headlamp, tail lamp, brakes lamp and indicator lamps for proper operation.
8. Battery Electrolyte level.



## Warning

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

# Running In

---

The THUNDERBIRD 350, as you would be experiencing, is capable of consistent high speeds. However as with any new motorcycle, a 'running-in' is essential during the first 2000 kms to achieve optimum performance subsequently.

The following tips will help in proper bedding of a new motorcycle.

1. During the first 2000 Kms of run, do not exceed the following speed limits.
2. Do not exceed maximum pay load as specified.
3. Warm up the engine for a few minutes to allow oil for all engine parts before riding the bike.
4. Do not ride in constant throttle for long distances. Vary the speed by 10%.
5. Avoid sudden revving and racing starts.

Gear \ Vehicle Speed	First 500 Kms	501 - 2000 Kms
1	15 KMPH	20 KMPH
2	25 KMPH	30 KMPH
3	30 KMPH	40 KMPH
4	45 KMPH	55 KMPH
5	60 KMPH	80 KMPH

# Starting

---

## Warning

Before starting engine, always shift gears into neutral.

## CAUTION

Do not force the gear lever while attempting to shift to neutral. Move the motorcycle back & forth and simultaneously press gear lever to come to neutral. Ensure neutral Indicator light glow in the Cluster Unit.

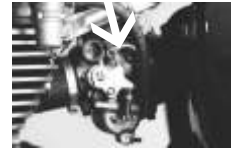


## USING KICK START

1. Turn fuel tap to "ON"



2. Use choke if required (E.g.. When starting a cold engine in winter season)



3. Switch "ON" Ignition
3. Ensure gear in neutral Position



4. Slightly crank engine further till compression eases over
5. Start the motorcycle with a powerful swinging kick
6. Release the choke, if applied



# Starting

---

## USING ELECTRIC START

### NOTE

- If the engine does not start on the first attempt in cold climate, release the starter button, wait for 30 seconds before pressing the starter button again.
- Press starter button and release starter switch once the engine starts.
- A clutch switch is provided in the system for the safety of the rider. This is to prevent the vehicle from starting when the vehicle is in gear. To start the engine when it is in gear, pull clutch lever, press starter button and release as soon as the engine starts.

- Turn ignition switch "ON"



- Ensure the side and main stands are in released position.



- Ensure that gears are in neutral and neutral lamp is glowing.

- Ensure Engine stop switch is in RUN position.



- Press Clutch Lever.



# Starting

- Press Starter Button and release as soon as engine starts.



## CAUTION

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

- choke



## NOTE

It may be necessary to operate Choke, when starting the engine for the first time in cold mornings, temp. Below 20°C or at high altitudes, to prevent the stalling and to keep the idling RPM steady.

As soon as the engine attains the operating temperature, the RPM will raise, at which time the Choke should be released.

- Warm up engine for 2 minutes - till idling is consistent.
- Prior to starting, check to see if the low fuel indicator is glowing continuously.
- If the fuel level indicator's last bar blink continuously, The fuel level in tank is below 5.5 Litres. (Approx.)



## CAUTION

Please ensure the motorcycle is not used with the Fuel Level Indicator bar blinking continuously. It may not only result in the motorcycle running out of fuel. But will also cause serious damage to the fuel pump. Please ensure fuel is filled up as soon as the Fuel Level last bar blinks.

# Gear Shifting

---

## GEAR SHIFT PATTERN 1 - N - 2 - 3 - 4 - 5

- Warm up engine for 2 minutes - till idling is consistent / stable .
- Press clutch lever towards the hand grip.
- Press gear pedal with toe to engage 1st gear.
- Gently open throttle and release clutch simultaneously. If clutch is released suddenly, the engine may stall and cause a jerky start.



- Press the gear pedal with heel to engage 2nd and higher gear.



- Follow the same procedure for 3rd, 4th and 5th gear.



## CAUTION

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

## NOTE

Always start motorcycle with gear in neutral position.

Always move the motorcycle in first gear position only.

When engine speed decreases or while climbing a gradient or running at a reduced speed, shift to the appropriate lower gear to prevent the engine from stalling or straining to pull.

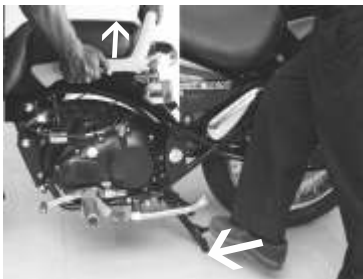


# Parking

---

## PARKING VEHICLE ON CENTER STAND

- Select a firm, flat surface.
- Hold handle bar straight.
- Lower center stand, and ensure that both the legs of the stand are resting evenly on firm ground.
- Apply pressure on the fulcrum lever on the center stand and pull vehicle backwards, simultaneously lift up back rest gently.



## PARKING VEHICLE ON SIDE STAND

- Select a firm, flat surface.
- Lower Side Stand and gently tilt motorcycle to the left till it rests firmly.



### **Warning**

Always park the motor cycle on a firm and flat surface. Parking in a soft ground may cause stand to sink and the motorcycle to fall, causing injury to you or to others and damage to the motorcycle parts.

# Tools & First Aid Kit



S.No.	Description	Qty.
1.	Tool bag	1
2.	Screwdriver	1
3.	Tommy bar	1
4.	Box spanner 21x24mm	1
5.	Tool-Spark plug	1
6.	Double end spanner 1/4x5/16inch	1
7.	Double end spanner 10x12mm	1
8.	Allen Key 4mm	1



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

## Note

This Tool kit is kept in Utility box, Refer page No.25

# Recommended Lubricants

---

Engine Oil	Royal Enfield Engine Oil 15W50 API SL JASO MA
Capacity	2.75 Litres ( With oil Filter ) 2.5 Litres ( During Oil & Filter Replacement )
Front Fork Oil	Gabriel Fork Oil (1 F Grade Royal Enfield )
Capacity	430 ± 3 ml per leg
Brake Fluid	DOT 3 OR DOT 4
Capacity	Front disc brake - 60ml. Rear disc brake - 100ml.

ISO 14001 - EMS Operation Control Process
<ol style="list-style-type: none"><li>1. All customers are advised timely replacement of Engine Oil, Fork Oil &amp; Brake Oil at the dealership/ASP. In case done privately, it is advised to reach old/used Oil to our authorised vendor through RE Dealer/ASP.</li><li>2. Similary we advise for disposal of old/used Battery, Tube &amp; Tyres as mentioned in above point No.1.</li></ol>



Do Not switch oil brands indiscriminately because some oil interact chemically when mixed. Use of inferior oils or nondetergent oils can damage the engine.

Don't mix DOT 3 & DOT 4 brake fluid together.

# Periodical Maintenance

---

The maintenance schedule detailed here will help you to maintain your Thunderbird 350 meticulously and to get a long trouble free service. The schedule provided herein is based upon average riding conditions and indicates the mileage at which regular inspections, adjustments, replacements and lubrications must be carried out.

The frequency of the maintenance must be shortened depending upon the severity of the driving condition or if the motorcycle is used in a very dusty environment, severe climatic cold and hot conditions, bad roads, stagnant water etc., Contact a nearest Royal Enfield Dealer for expert advice and to carry out the periodical maintenance.



## 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 causing the motorcycle to malfunction and stall abruptly resulting in an accident and cause serious injury.

# Periodical Maintenance

S. No.	DESCRIPTION	FREE SERVICES				PAID SERVICE						
		Whichever Is earlier				12	15	18	21	24	27	30
	Kms (X 1000)	0.5	3	6	9	12	15	18	21	24	27	30
	Months	1.5	3	6	9							
1	Engine oil	R	I	R	I	R	I	R	I	R	I	R
		Check level every 1000 Kms or earlier as required										
2	Engine oil filter paper element	R	C	R	C	R	C	R	C	R	C	R
3	Engine Suction filter & secondary drain magnetic plug	C		C		C		C		C		C
4	Spark plugs (2 nos.)	C,A	C,A	C,A	C,A	C,A	R	C,A	C,A	C,A	C,A	R
5	HT leads for crack	I	I	I	I	I	I	I	I	I	I	I
6	Carburettor (C V Type)	* Clean, Inspect and Tune										
7	Clutch Free Play	Adjust every 1000 Kms or earlier as required										
8	Accelerator & Carburettor cable free play	A	A	A	A	A	A	A	A	A	A	A
9	Rubber hose, Air filter to Carburettor	I	I	I	I	R	I	I	I	R	I	I
10	Rubber hose, Inlet manifold	I	I	I	I	R	I	I	I	R	I	I

# Periodical Maintenance

S. No.	DESCRIPTION	FREE SERVICES				PAID SERVICE							
		Whichever Is earlier				12	15	18	21	24	27	30	
	Kms (X 1000)	0.5	3	6	9	12	15	18	21	24	27	30	
	Months	1.5	3	6	9								
11	Air filter element	C	C	C	C	R	C	C	C	R	C	C	
12	Inlet/Exhaust Valve seating						I					I	
13	Cylinder head (Combustion chamber)											D	
14	Battery terminals (apply petroleum jelly)	C	C	C	C	C	C	C	C	C	C	C	
15	Battery Electrolyte level		I	I	I	I	I	I	I	I	I	I	
16	Earth wire eyelet (below flasher unit)						I					I	
17	Exhaust System											D	
18	Fuel Tap Filter	C	C	C	C	C	C	C	C	C	C	C	
19	Rear Wheel Drive Chain	Adjust for every 1000 Kms/Clean, Lubricate & adjust every 3000 kms or earlier as required											
20	Rear Brake Pedal free play adjustment	I	I	I	I&A	I	I	I	I&A	I	I	I	

# Periodical Maintenance

S. No.	DESCRIPTION	FREE SERVICES				PAID SERVICE							
		Whichever Is earlier				12	15	18	21	24	27	30	
	Kms (X 1000)	0.5	3	6	9	12	15	18	21	24	27	30	
	Months	1.5	3	6	9								
21	Front Fork oil / Oil Leak	I	I	I	R	I	I	R	I	I	R	I	
22	Steering ball races / play adjustment					L&A				L&A			
23	Spokes tightness & Wheel rim run out (Front & Rear)	I		I		I		I		I		I	
24	Swing Arm pivot bush & spacer			L		L		L		R		L	
25	Tyre wear (Front & Rear)	I	I	I	I	I	I	I	I	I	I	I	
26	Hand levers & Kick starter level pivot	Lubricate every 1000 Kms or earlier as required											
27	Handle Bar Damper Rubbers								C&R				
28	Front & Brake hose and banjo bolt	I	I	I	I	I	I	I	I	I	I	I	
29	Brake Fluid Front / Rear disc	I	I	I	R	I	I	R	I	I	R	I	

**A : Adjust    C : Clean    D : De-carbonise    I : Inspect    L : Lubricate    R : Replace**

**NOTE:**

For maintenance after 30,000 Kms, please repeat the same frequency level specified above, in consultation with a Royal Enfield Dealer / Authorised Service Point

\* Refer Service Manual

# Minor Maintenance Tips

The following minor maintenance can be carried out easily with simple tools. However, in case, if it is felt that the adjustments are best done by an expert, we recommend that the motorcycle be taken to a nearest Royal Enfield Dealer / Authorised Service Point.

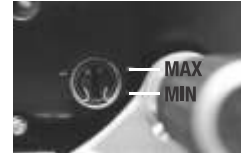
## CONTROL CABLES, HANDLE BAR LEVER, PIVOTS, CENTRE/SIDE STAND PIVOTS



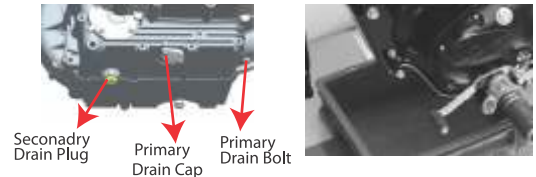
- Lubricate after using the motorcycle in rain, after water wash or if used in dusty conditions.
- Wipe the area free of dirt / grease.
- Apply a few drops of oil on the pivots.

## OIL LEVEL INSPECTION

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



## ENGINE - OIL CHANGE



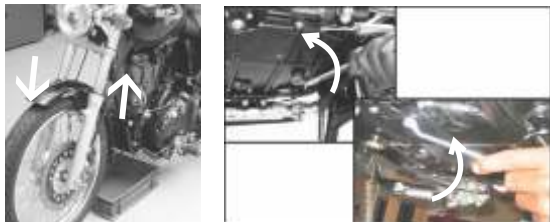
(Refer Periodical Maintenance Chart for frequency)



# Minor Maintenance Tips

---

- Place motorcycle on its centre stand on a firm flat surface.
- Start engine and warm up for 2 minutes.
- Keep a clean tray below the engine.
- Remove primary drain cap, to drain oil & clean suction filter, magnet.
- Then remove secondary drain plug to drain oil & clean the magnet.
- Finally remove the primary drain bolt (Under the crankshaft) to drain complete engine oil.



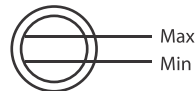
- Remove the oil filter paper element on the Crankcase Cover RH. Allow the oil to drain by tilting the motorcycle to both sides.

- Wash the drain plug, primary drain bolt and the suction filter thoroughly then refit on the crankcase after all the oil is completely drained out.
- Soak a new oil filter paper element in the oil and refit on the Crankcase Cover RH before replacing the same.
- Fill recommended oil to engine till the oil level is upto "MAX" level mark in the oil window in Crank case Cover RH.



## NOTE:

Always replace oil filter paper element whenever oil is being replaced.



## CAUTION:

Filling up oil over "MAX" mark may cause smoke, spillage or loss of power. DO NOT allow oil level to fall below "MIN" mark. Doing so may result in engine internal damage or malfunction.

# Minor Maintenance Tips

## SPARK PLUG



Cleaning and adjusting gap (Refer Periodical Maintenance Chart for frequency).

- Remove HT Lead and the spark plug from the cylinder head using the plug spanner and Tommy bar.
- Clean the insulator tip and electrodes of the plug carefully using a pointed scraper or spark plug cleaner.
- Set the gap between 0.70 to 0.80 mm.
- Refit the spark plug on the cylinder head and connect H.T. Lead.

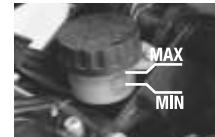
## BRAKE FLUID

Check if oil is below 'MIN' level. To top Up, remove cover and diaphragm, then top up upto 'MAX' level with DOT 3 or DOT 4 as specified.

Front Disc



Rear Disc



## CAUTION

Please take care that it does not spill over any other parts of the motorcycle. Please wipe the spilled brake fluid immediately, if there is any spill over, using a soil cloth (preferably a wet cloth) to avoid damage to paint work or other parts.

**Don't Mix DOT 3 & DONT 4 Brake Fluid together**

## INSPECTION OF TYRES AND WHEELS

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

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

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

# Minor Maintenance Tips

---

- Bald spots / swelling may be caused by internal damage. Replace the tyres, if defective.
- Replace tyres when the tread depth has reached the minimum as specified.
- Periodically inspect wheels for spokes breakage and wheel rim run out.
- Check proper seating of the tyre beading on the rim whenever the tyre is reassembled.
- Whenever a new tyre is installed, ensure rim and spokes do not get damaged on account of using wrong levers.
- Use only standard tyres & tubes inflated to correct pressure.

## TYRE PRESSURE

	Front	Rear
Solo	1.41 kg/cm <sup>2</sup> ( 20 PSI)	2.11 kg/cm <sup>2</sup> (30 PSI)
With Pillion	1.55 kg/cm <sup>2</sup> (22 PSI)	2.25 kg/cm <sup>2</sup> (32 PSI)



## Warning

Tyres, rims and air valves must be correctly matched to wheel rims. See your Royal Enfield Dealer. Mismatching tyre, tubes, rims and air valves may result in damage to the tyre bead during mounting, allow tyre slippage on the rim and cause tyre failure.

## FRONT WHEEL REMOVAL

- Place the vehicle on center stand.
- Place a wooden block in front end of the engine to support the vehicle.
- Remove the Speedo sensor cable from the cable guide (Near Front Mudguard) by expanding the clip end as shown.



# Minor Maintenance Tips

---

- Loosen the pinch bolt on the RH Fork by using 6mm Allen key.



- Remove the Front wheel spindle nut by using 24mm spanner along with washer and hold the RH end by using 16 mm spanner.



- Gently tap and remove the front wheel spindle.



- Remove the LH side Spacer.

- Remove the speedo sensor assembly from front wheel hub.



- Tilt the vehicle to RH side and take out the wheel.



## CAUTION

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

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

# Starting

## FRONT WHEEL ASSEMBLY

- Remove the wooden piece/Card board sheet placed between the brake pads.

- Insert the wheel between the front fork ends. Ensuring the brake disc is located between the brake pads.



- Place the speedo sensor assembly into front wheel hub.



- Place the speedo sensor cable in the cable guide (Near Front Mudguard) by expanding the clip end.
- Insert the LH side spacer in between front hub and LH side fork.



- Insert and tap the front wheel spindle gently.



- Refix and tighten the front wheel spindle nut by using 24 mm spanner along with washer and holding RH end by using 16mm spanner.



# Minor Maintenance Tips

- Rotate the wheel and check for smooth rotation.
- Tighten the pinch bolt on RH fork by using 6m Allen key.



- Press brake lever 2 or 3 times to check front brake efficiency.

## REAR WHEEL REMOVAL

- Place the vehicle on center stand on a firm and flat surface.
- Note the alignment index marks in the both side of swing arm.



- Remove split pin and castle nut on the RH side.



- Remove wheel spindle from LH side as shown.



- Remove the brake hose pipe from the swing arm clips.



# Minor Maintenance Tips

---

- Remove the caliper assembly with bracket by pulling out from the swing arm slot.



- Place the wooden piece/ card board sheet in between the brake pads.



- Remove the LH side spacer from rear wheel hub.



- Tilt vehicle to RH side and slide out rear wheel.



## REAR WHEEL ASSEMBLY

- Ensure the four cush rubbers are in position inside the rear wheel hub



- Tilt vehicle to RH side and insert the wheel assembly between the swing arms.



# Minor Maintenance Tips

- Position the rear wheel with cush rubbers on the rear chain sprocket.



- Fix the LH side spacer in Rear wheel hub.

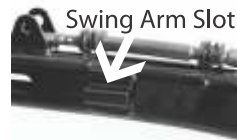


- Remove the wooden piece/ card board sheet in between the brake pads.

Caliper Slot



- Insert the caliper assembly with bracket by matching the slots given in the caliper and swing arm.



## NOTE

Ensure the brake disc is located in between the brake pads.

- Align the caliper bracket, wheel and swing arm holes all are in one line.



- Insert and tap the rear wheel axle gently from LH side.



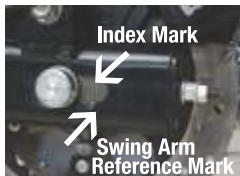


# Minor Maintenance Tips

## CAUTION

Do not force the spindle into the wheel as the threads may get damaged. Tap it through the wheel gently.

- Note the alignment index marks in the both side of swing arm.



- Tighten the castle nut and ensure that the pin hole on axle shaft and slot on castle nut are aligned to enable split pin fitment.
- Fix the split pin and lock it properly.



- Fix the brake hose pipe in swing arm clips properly.



## CAUTION

Please check the brake hose pipe routing from Reservoir to Master cylinder, Master cylinder to Rear wheel caliper.

There should not be any twist or pinch in routing which may affect braking performance.



## Warning

Ensure the vehicle does not come off centre stand while assembling / disassembling the wheel assembly. Failure to adhere could result in damage or serious injury.

# Minor Maintenance Tips

## REAR BRAKE PAD REPLACEMENT

- Once you remove the rear wheel axle then pull out the caliper assembly from swing arm. (Ref Rear wheel removal and assembly Page No. 58)



- Remove the clip hanger from the caliper assembly by using combination plier.



- Remove the pad pin from the caliper assembly by using combination plier.



- Remove the worn out brake pad from the caliper assembly

- Clean the caliper assembly by dry/clean cloth.



- Place the new brake pad in caliper assembly as shown.



- Insert the pad pin in caliper assembly by using combination plier



# Minor Maintenance Tips

- Insert the clip hangers in caliper assembly



- Finally insert the caliper assembly with bracket into the swing arm slot



## NOTE

For further process pls Ref. Page No. 59

## REAR BRAKE PEDAL FREE PLAY ADJUSTMENT

Adjuster Location as Shown in fig.



- The recommended brake pedal travel is 20 to 30 mm.



- If not, Follow the below procedure.
- Loosen the lock nut in master cylinder push rod assy.
- Rotate the master cylinder push rod anti clockwise to reduce the rear brake pedal free play as shown in fig.



# Minor Maintenance Tips

- Rotate the master cylinder push rod clockwise to increase the rear brake pedal free play as shown in fig.



- After adjustment tighten the lock nut in master cylinder push rod assy.



## NOTE

In case found difficulty contact Dealer Work Shop / ASP.

## DRIVE CHAIN LOCK FITMENT

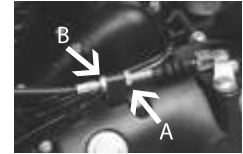
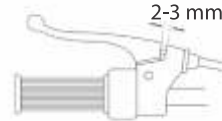
The open end of the chain master link lock should face opposite to normal direction of chain rotation.



The fitment of lock in wrong direction can lead to

falling off of chain link thus disengaging the drive.

## ADJUSTMENTS - CLUTCH



Clutch lever (Free play 2-3 mm at pivot)

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

## REAR BRAKE LIGHT SWITCH ADJUSTMENT

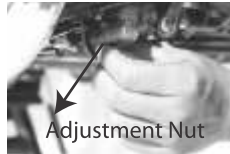
The brake light is activated once you press the brake pedal. If not, adjust the rear brake light switch as follows.

Before adjust the switch check the rear brake pedal free play, brake light switch wire connection, switch spring

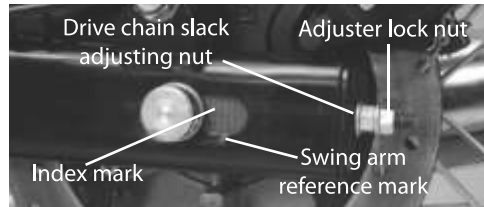
# Minor Maintenance Tips

bent, broken and connection into brake pedal bracket.  
If its ok then do the adjustment.

1. Turn the brake light switch adjustment nut while holding the rear brake light switch body in position.
2. If brake light glows after pressing the pedal more than 25mm. Turn the adjusting nut in anti-clockwise direction by 2 to 3 threads and check for brake light function.
3. If brake light continuously glows - Turn the adjusting nut in clockwise direction by 2 to 3 threads.



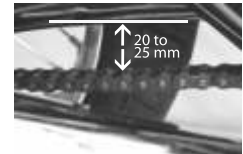
## DRIVE CHAIN FREE PLAY (20 – 25 mm)



1. Place motorcycle on its center stand on a firm & flat surface.

2. Shift the gear into the neutral position.

3. Measure the drive chain free play as shown. The drive chain free play is 20 to 25 mm.



4. If the drive chain free play is incorrect adjust as follows:
  - a. Remove the split pin from the castle nut .
  - b. loosen the castle/spindle nut .



# Minor Maintenance Tips

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- c. loosen the locknut of both ends of the swing arm.



- d. To reduce the free play, turn the drive chain slack adjusting nut in clockwise direction RH side.



- e. To increase the free play, turn the drive chain slack adjusting nut in anticlockwise direction and push the rear wheel forward.



- f. Check the front and rear wheels correctly aligned.
- g. Check and ensure the alignment marks on each side of the swing arm.
- h. Finally Torque the Castle/Spindle nut.
- i. Tighten the lock nut for the chain slack adjusting nut.



## Warning

chain slackness beyond 30mm will lead to chain slippage. Maintain drive chain slackness within the specified limits @ every 1000kms interval.

# Minor Maintenance Tips

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## ADJUSTMENT OF GAS SHOCKABSORBER

- The rear gas shock absorber is of adjustable type i.e., the spring tension can be increased or reduced.
- Increase the spring tension for high load operation.
- Reduce the spring tension for low load operation.
- The adjuster provided on the bottom of the spring has five notches.
- Insert C spanner into the slot provided in the adjuster cup.
- Turn the adjuster such that the adjuster moves up to increase the spring tension and vice versa to reduce the spring tension.
- Adjust both side shock absorbers to the same notch.



## NOTE

Ensure accessories do not foul with rear shock absorber. Check for sufficient gap between the shock absorber and the attachments when the rear end of the motorcycle is fully loaded and the shock absorbers are fully compressed.

## REMOVAL OF BATTERY FROM THE VEHICLE

- Unlock (turn the key clockwise) and remove the Left side panel.



- Disconnect both the terminal wires (negative and positive respectively).



## Warning

Riding the motorcycle with the notches adjusted in different positions can cause loss of control.

Regularly inspect shock absorbers and front forks for leaks.

# Minor Maintenance Tips

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- Remove the battery carrier bracket by loosening the two screws.
- Take out the battery.



## Electrolyte level.

If electrolyte level is low, top up with distilled water only.

## BATTERY MAINTENANCE

- The vehicle is provided with 12V - 14 AH – MF battery.
- The battery must be periodically checked for Cleanliness and corrosion free terminals.



## Warning

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



# Minor Maintenance Tips

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## NOTE

For checking the battery voltage and electrolyte specific gravity, contact authorised Royal Enfield Dealer / service point or battery service centre.

## CAUTION

- Do not use battery with low electrolyte level as the battery internal cells will get damaged.
- Do not overfill the battery electrolyte level as it will spill out through the overflow pipe and cause corrosion to vehicle parts.
- Use only distilled water meant for use in batteries to avoid damage to battery.
- Electrolyte should not be filled when the level is between minimum & maximum.

## REASSEMBLY OF BATTERY ON VEHICLE

- Position the battery in the battery carrier such that the negative terminal of the battery is towards fuel pump.



- Ensure ignition switch is in "OFF" condition.

- Connect the positive terminal (Red wire) first.
- Connect the negative terminal (Black wire) next.

- Smear the terminals with petroleum jelly. (Do not use grease). Place the terminal boot / cap properly.



# Minor Maintenance Tips

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- Refit the battery carrier bracket by tightening the two screws.
- Refit LH side panel & lock it.



## NOTE

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

## CAUTION

Connect the +ve and -ve cables to the respective battery terminals. Failure to do so may result in damage to the motorcycle electrical system.

## HEADLAMP BULBS REPLACEMENT

1. Vehicle is provided with high and low beam bulbs separately.

2. Remove the head lamp holding 2 nos. side screws.



3. Detach the bottom lug from the head lamp housing body.



4. Remove the rubber grommet (upper for High beam /another for Low beam) from the reflector assembly.



# Minor Maintenance Tips

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5. Disconnect High beam wire connector (Blue and Black wires).



6. Disconnect Low beam wire connector (Green and Black wires)



7. Gently press the bulb holding U clip from both the sides downward and release it from reflector slot as shown.



8. Pull out the fused bulb.

## Caution

Never touch the bulb with your fingers. Finger prints will etch the glass and decrease bulb life.

Always hold the bulb with paper or clean dry cloth during handling.



Don't disturb the vent cap provided in the inner body mould.

## REASSEMBLING HEADLAMP BULB.

1. Refit the new bulb (12 V 55W) into reflector unit by locating the wider protrude on the top side mounting.



# Minor Maintenance Tips

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2. Fix bulb holding U clip notch, then press both ends of the clip and lock in its slots.



3. Fit the rubber grommets.



4. Connect the wire couplers as mentioned below

For High beam  
(Blue and Black wire  
Connector)

For Low beam (Green  
and Black wire connector)



5. Position the bottom lug into the head lamp housing body.



6. Fix the head lamp holding 2 nos. side screws.



## NOTE

After connecting above said procedure, turn ignition switch to "ON" condition and then check, ensure that day flash light works in High Beam mode.

# Minor Maintenance Tips

## TAIL LAMP BULB REPLACEMENT

This model is equipped with LED tail / stop lamp. If tail / stop lamp is not working, check for electrical wire connection or you may replace the sealed tail light unit.

Contact Royal Enfield authorised dealer /ASP to replace it.



## TRAFFICATOR BULB REPLACEMENT

1. Remove the screw from the trafficator housing back side.



2. Take out the lens with reflector unit.

3. Remove the plastic bulb holder by turning anti clockwise direction.



4. Remove the fused bulb by pushing it inside and turn clockwise direction.



5. Position the new bulb inside the plastic bulb holder, ensuring that the pins in the bulb match with slots in the bulb holder and rotate clockwise to fix the bulb into bulb holder.



## CAUTION

Ensure that small tab of bulb holder is being aligned small knotch in the reflector unit as shown in above fig.

Otherwise by force fixing may damage the reflector unit.

# Minor Maintenance Tips

6. Align the bulb holder  
knock into reflector unit  
and turn clockwise  
direction to lock the bulb  
holder into reflector unit.



7. Refit the trafficator cover  
with reflector unit.



8. Tighten the screw from  
the trafficator housing  
back side.



## Note

Do not over tighten the screw, otherwise the lens may break.

## FUSE

1. Remove the battery cover  
(side panel LH).



2. There are 2 cable hooks,  
Black & Yellow on right  
side of the battery (below  
the hook, Index mark "R"-  
Rider & "P" – Pillion).



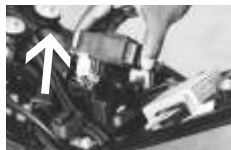
3. Pull out the Black hook to  
remove Rider seat.



4. Pull the seat backwards  
and remove.

# Minor Maintenance Tips

5. Remove the TCI Unit and place beside as shown in fig. .



6. Remove the Fuse carrier by pulling out from the clamp.



7. The fuse box carries Qty 4 fuses (2 live fuses and 2 spare fuses).



8. Replace the blown fuse with the spare fuse available in the fuse box as per 10 or 15 Amps rating.



## BLADE FUSE USAGE LIST

Fuse No. / colour	Amps	Application
1. Blue	15A	Main Fuse (All Loads)
2. Red	10A	TCI Fuse (Ignition Loads)
3. Blue	15A	Spare Fuse
4. Red	10A	Spare Fuse

# Washing Procedure

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## PRECAUTIONS

- Wash vehicle when the engine is cold.
- Cover the silencer tail end and control switches with suitable plastic bags and tie it firmly to prevent water entry into them.
- Remove ignition key and seal key hole using adhesive tape.
- Use a suitable engine degreaser, available with your local parts store, to remove dirt or grease from the engine external parts if required. Follow the directions in the label carefully before using the degreaser.
- Use low pressure jet of water to clean the entire vehicle.
- Never spray water with great force on head lamp, Meter/cluster unit, trafficator lights, front and rear wheel hubs, electrical connections and wires, control cables, sparkplug, battery,... etc.
- Use Luke warm water and mild detergent on the painted components to remove dirt, etc.
- Rinse vehicle thoroughly with plain water to remove the detergent and wipe vehicle dry.

- If possible, use compressed air and blow off water particles from the obscure areas of the vehicle, electrical connections etc.

## AFTER WASHING

- Ensure the vehicle is thoroughly dry by wiping with a clean soft absorbent cloth or chamois leather.
- Remove all plastic bags and adhesive tapes.
- Lubricate control cables, pivot and rear chain with lube oil
- Polish the painted and plated surfaces using polishing wax.
- Start the bike and allow engine to idle & warm up.
- Drive the motorcycle slowly, applying both brakes intermittently to dry up the brake pads.



### Warning

Observe warnings and cautions given on labels of cleaning compounds.



# Storage Precautions

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Incase your Motorcycle is not going to be used for a month or more, we advise the following precautions to be taken

- Carryout required repair/adjustments on the motorcycle.
- Wash the motorcycle thoroughly and lubricate as per the maintenance chart.
- Start the engine, warm up for a few minutes and switch off.
- Drain out the fuel completely from the fuel tank and fuel lines.
- Remove spark plug. Pour in about 20 ml of clean engine oil through spark plug hole. Close the hole and crank engine several times and refit sparkplug.
- Clean rear chain thoroughly and apply a thin film of lube oil.
- Remove battery from the bike. Clean the terminals free of corrosion.
- Maintain electrolyte level between max or min mark, by adding distilled water and wipe the battery dry.
- Store the battery in a cool, dry and well ventilated place.
- Do not place the battery in direct sun light, near open flame or where temperature is above 40°C or below 0°C
- Cover the silencer with plastic bags to prevent moisture entry. Set the motorcycle on its center stand.
- Apply anti rust solution on all chrome plated parts. Take care not to apply this solution on rubber or painted parts.
- Store motorcycle in a clean covered area free of moisture and keep it covered to prevent dust settling on it.

## Note

Contact Royal Enfield dealer for purchase of approved Bike cover.

# Storage Precautions

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## PREPARING THE MOTORCYCLE FOR REUSE

- Remove anti rust solution from all chrome plated parts and clean the motorcycle.
- Inflate the tyres to the correct tyre pressure.
- Ensure battery is fully charged and proper electrolyte level is maintained.
- Connect the battery.
- Lubricate all control cables and pivots.
- Check proper level of oil in engine.
- Fill fuel tank with fresh petrol.
- Check fuel line for any cracks or cuts.
- Clean the air filter.
- Remove plastic covering from the silencer.
- Remove spark plug on cylinder head and pour in a few drops of engine oil. Crank engine a few times to lubricate cylinder walls and piston. Clean spark plug and refit.
- Switch "ON" ignition switch.
- Start vehicle and warm up engine for a few minutes before riding the vehicle.

## NOTE

Do not raise the engine rpm the moment it is started, but allow the engine to run at Idling speed.

## CAUTION

Proper long-term storage is important for the safe, trouble-free operation of your Royal Enfield motorcycle.

# Long Trip Precautions

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## CHECKS PRIOR TO THE COMMENCEMENT OF LONG JOURNEY

- Service the motorcycle thoroughly at Royal Enfield Dealer / Authorised Service Point as per periodical maintenance chart. (Ref. Page No. 48)
- Sufficient quantity of petrol in the fuel tank for the journey planned.
- Check and correct tyre pressure if necessary.

### CHECKS AFTER EVERY 1500 KMS OF RUN

- Tightness of all fasteners.
- Tyre treads condition and wear of tyres.
- Battery condition and electrolyte level.
- Correct oil level in engine.
- Working of all lights and horn.
- Proper drive chain tension.

## ITEMS TO BE CARRIED

- Tool kit.
- First aid kit.
- Bulbs for Headlight, Trafficator light and Blade Fuse (15 & 10 Amps).
- Accelerator & Clutch cable.
- Rear chain master link lock assembly.
- Spare tube and puncture repair kit - cold. vulcanising type.
- Foot operated Air Pump.
- Insulation tape.
- Spark plugs (M14 & M10)
- Fuel hose.

# Complete Wiring Diagram

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PASTE THE WIRING DIAGRAM

## NOTE

Complete Wiring Diagram is attached on this page.

## VEHICLE STARTING PROCEDURE

Basic Guidelines to be followed "FOR ALL ELECTRIC START VEHICLES".

1. In cold condition of the engine or for initial start. It is advised to use Kick start (KS) only.
2. Apply choke in cold start condition. (Ambient temperature  $<25^{\circ}\text{C}$ )
3. Do Not Attempt — "HALF START" by casually pressing electric start buttons.
4. Please press and hold electric start button for atleast 3 seconds continuously for the cranking or until the engine fires and sustains, whichever is earlier
5. If engine doesn't start in the first attempt, release the ES button and repeat the above procedure.
6. It is advised not to apply excessive throttle during starting.

# Trouble Shooting

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## Warning

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

# Trouble Shooting

CAUSES	REMEDIES
<b>I. ENGINE FAILS TO START</b>	
1. Ignition switch In 'OFF' Position	Switch on Ignition.
2. Stop switch in 'OFF' Position	Push stop switch to 'ON' position.
3. Clogged fuel line / tap	Clean the fuel line / tap.
4. Vent hole clogged in fuel tank cap	Clean vent hole.
5. Carburetor passage & jets blocked	Dismantle carburetor & clean jets / passages
6. Carburetor float stuck in closed position	Ensure correct movement of float
7. Spark plug cap / lead not connected	Fix cap / lead firmly
8. Loose HT connections	Fix connections firmly
9. HT Lead Damaged	Replace HT Lead
10. Spark plug electrode dirty / fouled	Clean spark plug & Reset gap.

**\*Contact Dealer / Authorised Service Point**

# Trouble Shooting

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CAUSES	REMEDIES
11. Spark plug insulation cracked	Replace spark plug
12. Auto decompressor not working	Ensure free motion of flyweight in exhaust cam gear assembly
13. Loose spark plug	Tighten spark plug
14. Clutch slipping	Adjust clutch cable free play
<b>II. ENGINE MISFIRING</b>	
1. Water in petrol tank / Carburetor	Clean carburetor / petrol tank. Fill tank with fresh petrol.
2. Leak through intake hose	Tighten rubber hose suitably, Replace if necessary
3. Loose spark plug cap	Fix cap / lead firmly
4. Spark plug fouled / Insulation broken	Clean / reset gap or replace
5. Poor compression	Auto decompressor sticky or not working

**\*Contact Dealer / Authorised Service Point**

# Trouble Shooting

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CAUSES	REMEDIES
<b>III. ENGINE STARTS, BUT RUNS IRREGULARLY &amp; STOP</b>	
1. Faulty fuel supply	Clean the fuel line / tap / vent hole
2. Very low idling speed	Increase idling speed
<b>IV. POOR PICKUP</b>	
1. Accelerator cable free play excessive & Clutch slipping	Adjust cable free play
2. Faulty fuel supply	Clean the fuel line / tap / vent hole
3. Chocked air filter	Clean / replace air filter
4. Loose carburetor mounting	Tighten clamps firmly
5. Rear chain adjusted too tight	* Re - adjust properly
6. Under inflated tyres	Inflate to correct pressure
7. TPS setting	Retard setting

\*Contact Dealer / Authorised Service Point



# Trouble Shooting

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CAUSES	REMEDIES
<b>V. WHITE/BLUE SMOKE</b>	
1. Oil level in sump above the MAX line in the oil level window	Check and drain the excess oil
<b>VI. ENGINE OVERHEATING</b>	
1. Cylinder fins not clean	Clean the cylinder fins at regular intervals
2. Clutch slipping	*Check and correct
3. Suction leakage	*Check and correct
4. Incorrect carburetor adjustments	*Check and correct
5. TPS setting	*Advance setting

\*Contact Dealer / Authorised Service Point

# Trouble Shooting

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CAUSES	REMEDIES
<b>VII. EXCESSIVE FUEL CONSUMPTION</b>	
1. Fuel leakage	*Check and rectify
2. Worn out carburetor jets	*Change the defective jets
3. Incorrect carburetor adjustments	* Check and adjust correctly
4. Chocked air filter	Clean / Replace
5. Poor compression	Auto decompressor sticky or not working properly
6. Under inflated tyres	Inflate to correct pressure
7. TPS setting	Over advance setting
<b>VIII. IGNITION KNOCK</b>	
1. Carburetor adjusted too lean	*Check and readjust
2. Suction leakage	*Check and correct

**\*Contact Dealer / Authorised Service Point**

# Trouble Shooting

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CAUSES	REMEDIES
<b>IX. BRAKES POOR</b>	
1. Not adjusted properly	*Adjust properly
2. Oil / Grease on disc	*Clean and refit
3. Brake pad worn / uneven wear	*Replace disc
4. Disc scored / uneven wear	*Rectify or replace disc
<b>X. VEHICLE WOBBLER</b>	
1. Wheel rim runout	*Rectify
2. Loose / Broken spokes	*Tighten / Replace spokes
3. Tyres not fitted correctly	*Refit tyres correctly
4. Wheels misaligned	*Ensure proper alignment
5. Under inflated tyres	Inflate to correct pressure

**\*Contact Dealer / Authorised Service Point**

# Trouble Shooting

CAUSES	REMEDIES
<b>XI. ELECTRICALS</b>	
<b>Bulbs do not glow</b>	
1. Loose / improper connection	*Check and correct
2. Bulb fused & Fuse blown	*Replace bulb & *Replace fuse
3. Switch defective	*Replace switch
<b>Horn not working</b>	
1. Loose connection	*Check and correct
2. Requires tuning	*Turn horn
3. Switch defective	*Replace
<b>Trafficators not working</b>	
1. Bulb fused , Switch & I.C.Flasher defective	Replace

\*Contact Dealer / Authorised Service Point

# Trouble Shooting

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CAUSES	REMEDIES
2. Loose / improper connections	Check and correct
<b>Brake light remains on</b>	
1. Switch not adjusted properly / Switch Sticky	*Replace / *Adjust switch properly
<b>XII. ELECTRICAL START</b>	
<b>Vehicle not starting</b>	
1. Neutral indicator not glowing	Bring the vehicle in neutral
2. If vehicle is without neutral indicator	Press the clutch lever & start switch together
3. Loose connection & Starter relay not working	*Check and replace
4. Malfunctioning of clutch / starter switch & Battery discharge	*Check and replace
5. Motor not working & Battery not fully charged	*Check and replace & *Check and recharge
6. Failure of sprag clutch	*Check and replace

**\*Contact Dealer / Authorised Service Point**

# Trouble Shooting

CAUSES	REMEDIES
<b>XIII. INSTRUMENT CLUSTER</b>	
1. Needle Flickering or not working	*Replace Cluster Unit
2. Hazard, Set and Select button not working / Struck up	*Replace Cluster Unit
3. LCD Display not working	Check for wire connection and fuse / Check for Battery voltage
4. a) Teltale indicator (Excluding Neutral / Side stand) not working b) Side stand / Neutral indicator not working	*Replace Cluster Unit *Replace Bulb
<b>XIV. LCD DISPLAY PANEL</b>	
1. Fuel level indicator not working	*Contact Dealer
2. Odometer / Clock not working	*Contact Dealer
3. Service Reminder / Battery low voltage indicator continuously blinking	*Contact Dealer

**\*Contact Dealer / Authorised Service Point**

# Warranty

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

Royal Enfield (RE) warrants THUNDERBIRD 350 Motor Cycle to be free from manufacturing and material defect under normal use subject to following conditions.

1. RE will replace or repair defective part / parts at their Dealers. Authorised Service Point, free of charge within a period of 12 months from the date of sale (date of Installation) or 10,000 kms whichever occurs earlier.
2. The warranty is applicable only to first registered owner.
3. The warranty shall be applicable only if all the free services are availed at the respective period / Kilometers range as per the schedule given in the owner's manual from RE Dealers / Authorised Service Points.
4. During the warranty period, RE's obligations shall be limited to repairing / replacing free of charge such part or parts of the vehicle, which on examination to have manufacturing defect. Such defective part / parts which have been replaced becomes property of RE.
5. Cost of oil, oil filter, fuel and other consumables are chargeable to the customer.
6. Claims on proprietary items like tyres, tubes, spark plug, battery etc. should be taken up with respective manufacturer or their authorised agents in the area directly by customer. RE shall not be liable in any manner to replace them though their Dealers will provide assistance in preferring such claims on their manufacturer.

# Warranty

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7. Warranty shall not apply to:
  - (a) Normal ageing, detonation or rusting of plated parts paints coat, rubber parts, soft items, drive chain & sprockets glass items & plastic parts etc.
  - (b) Components like fuel line, oil filter element, control cables, brake pads, clutch plates, which are subjected to normal wear and tear.
  - (c) Damages due to use of lubricant / oil / grease etc., other than specified by RE.
  - (d) Damages due to use of non-genuine parts.
  - (e) Damages due to lack of proper maintenance of the vehicle.
  - (f) Damages due to incorrect driving or riding habits.
  - (g) Parts damaged due to accidents, collision, abuse etc.
  - (h) Irregularities not recognized as affecting the quality or function of the vehicle such as slight vibration, oil leakage, discoloration of exhaust bent pipe / silencer / soft or hard shock absorber etc.
  - (i) Defects arising from fitment of unauthorised / additional Electrical loads.
  - (j) Vehicle serviced/ repaired at unauthorised service points.
  - (k) Vehicle used for competition / racing.
  - (l) Electrical component like bulbs, fuses etc. & Electronic components failure due to repairs by arc welding.
  - (m) Normal maintenance operations like adjustment of brakes, cleaning fuel system, engine tune up and other such adjustments.
8. RE reserves the right to finally decide on all warranty claims.
9. RE reserves the right to make changes in Design of the vehicle without any obligation to install these changes on previously supplied vehicles.

**NOTE: No warranty for stone black colour, against gloss, scratches, fade...etc., Complaints.**



# Emission Warranty

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In compliance with the provisions of Rule 115(2) of the Central Motor Vehicle Rules, 1989, Royal Enfield certifies that the following warranty is applicable to those components liable to affect the emission of the gaseous pollutants in its range of motorcycles, in normal use to which it may be subjected to.

This emission warranty comes into force from 01st July 2001 and is valid for a period of 30,000 Kms. or 36 months, whichever occurs earlier, from the date of sale to the first customer and is in addition to and parallel to the warranty policy, conditions and obligations laid down in the Owner's Manual.

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

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

In case of acceptance of the component's under Emission warranty, Royal Enfield will replace free of charge, the component's as required. However, the consumables like fuel, lubricants, solvents, etc. shall be chargeable to the customer as per actual. In case any of the components covered under emission warranty or the associated parts, are not independently replaceable, Royal Enfield will have the sole discretion to replace either the entire assembly or parts of the assembly, through suitable repairs.

# Emission Warranty

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

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

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

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

That costs incurred to check emission of the motorcycle will have to be borne by the customer.

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

## **THE WARRANTY SHALL APPLY IF THE CUSTOMER**

- Observes all the important instructions and any other precautions listed in the owner's manual.
- Under all circumstances uses lubricants and fuel as recommended by Royal Enfield.
- Regularly obtains and carries out maintenance in accordance with Royal Enfield guidelines and enters the details in the Log book.

# Emission Warranty

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- Immediately approach the nearest Authorised Dealer / Service Point upon discovery of failure to comply with the IN-USE emission standard in spite of having maintained and used the vehicle in accordance with the instructions in the owner's manual and having carried out such repairs and adjustments as may be required with a view to establish such compliance.
- Produce the Pollution Under Control' certificate valid for the period immediately preceding the test during which the failure is discovered, the test having been carried out either for obtaining a new certificate or pursuant upon being
- Produce the Owner's Manual and Log book for verification details.
- Produce receipts covering maintenance of the motorcycle is specified in the owner's manual from the date of original purchase of the vehicle.
- Produce valid certificate of Insurance and R. T. O. registration certificate.

## **THE EMISSION WARRANTY SHALL NOT APPLY IF**

- A valid "Pollution under control" certificate is not produced.
- The motorcycle is not serviced by Authorised Dealer /Service Points as per the service schedule described in the maintenance chart.
- The motorcycle has been subjected to abnormal use, abuse, neglect and improper maintenance or has met with an accident.
- Replacement parts not specified and approved by Royal Enfield have been used.
- The odometer is not functioning or the odometer and / or its reading has been changed / tampered with, so that the actual distance covered cannot be readily determined.
- The motorcycle has been used for competitions, races, and rallies or for the purpose of establishing records.

# Emission Warranty

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- On examination by Royal Enfield or its Authorised Dealer / Service Points, if the motorcycle shows that any of the conditions stipulated in the Owner's manual with regard to use and maintenance have been violated.
- The motorcycle has been run on adulterated / leaded fuel or lubricant other than those specified by Royal Enfield in the Owner's manual or any other document given to the customer at the time of sale of the motorcycle.
- The emission related components are tampered with local repairs.
- All service and parts related bills and vouchers incurred during the tenure of the emission warranty is not produced.
- All maintenance activities carried out on the vehicle during the tenure of the emission warranty is not entered in the log book.

## TIPS TO BE ON THE RIGHT SIDE OF LAW

- Always get your vehicle checked to meet the emission regulations through and authorised emission checking centre.
- Always carry a valid "Pollution Under Control" certificate with you at all times during the validity of the emission

## TIPS TO REDUCE POLLUTION

1. Ensure that the periodical maintenance is carried out as stipulated in the owner's manual through a Royal Enfield Authorised Dealer / Service Point.
2. Use only Unleaded petrol (>87 octane) from reputed fuel pumps.
3. Ensure the fuel used is not adulterated.
4. Use correct spark plug as recommended in the owner's manual
5. Use lubricants as per recommendations given on grade / brand in the owner's manual.

# Free Service Coupons

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It is our endeavour to provide excellent service to your Royal Enfield Motor Cycle at all times. Towards this we provide four free services at specific Intervals.

Please avail these services at the specified time, in any of the Royal Enfield dealerships / Authorised Service Points nearest to you and as a token of satisfactory service, kindly return the free service coupon duly filled in and signed, to the service outlet.

Availing the free services in the specified time is a prerequisite to warranty consideration.

The cost of fuel, oil, oil filter element, grease etc. are used for free service is chargeable to the customer.

# 1st Free Service

## 1st FREE SERVICE

500 Kms  
or  
45 ± 8 days  
whichever is  
earlier from the  
date of sale.  
Enter the Details  
in Free Service  
Record.  
(Cost of oil,  
oil filter element  
and other  
consumables  
used are  
chargeable to  
the customer

500 KMS OR 45 ± 8 DAYS WHICHEVER IS EARLIER FROM DATE OF SALE

Customer Name :

Dealer Code:

Address :

Frame No :

Engine No :

Vehicle Installation From No :

ODO Reading :

Reg No :

Sale Date :

Service Date:

Service by:  
(Dealer's ASP Name & Address)

Sold by (Dealer's Name & Address)

Received the above vehicle after the service having been done to my entire satisfaction.

Customer Signature: \_\_\_\_\_

Date:

Contact Phone / Mobile No. :

# 1st Free Service Activities

1. Water wash the vehicle and dry it with a clean cloth	
2. Electrolyte	Check level & top-up
3. Battery terminals	Clean and apply petroleum jelly
4. Drive chain free play	Check, clean, lubricate & adjust
5. Rear brake pedal pivot	Lubricate
6. Front & Rear brake	Check & top up brake fluid level
7. Wheel rim Front & Rear	Check spokes tightness
8. Front fork oil	Inspect for leakage
9. Air Filter element	Clean
10. Spark plugs(2Nos)	Check, clean & adjust gap
11. H.T. Leads	Inspect for cracks
12. Fuel Filter	Clean
13. Carburetor	Inspect & Tune
14. Fuel pipe	Inspect for cracks
15. Rubber hose, Air filter to Carburetor	Inspect for cracks
16. Accelerator / TPS cable	Adjust play
17. Clutch cable	Adjust play
18. Engine oil sump strainer	Clean
19. Engine oil	Replace
20. Engine oil filter paper element	Replace
21. Hand levers & kick starter pivot	Lubricate

## CUSTOMER COPY

Job Card No.:

Date:

Odo Reading:

Name of Dealer/  
ASP with Code:

ASP / Dealer's  
Stamp & Signature

# 2nd Free Service

## 2nd FREE SERVICE

3000 Kms  
or  
90 ± 15 days  
whichever is  
earlier from the  
date of sale.  
Enter the Details  
in Free Service  
Record.  
(Cost of oil,  
oil filter element  
and other  
consumables  
used are  
chargeable to  
the customer

3000 KMS OR 90 ± 15 DAYS WHICHEVER IS EARLIER FROM DATE OF SALE

Customer Name :

Dealer Code:

Address :

Frame No :

Reg No :

Engine No :

Sale Date :

Vehicle Installation From No :

Service Date:

ODO Reading :

Service by:  
(Dealer's ASP Name & Address)

Sold by (Dealer's Name & Address)

Received the above vehicle after the service having been done to my entire satisfaction.

Customer Signature: \_\_\_\_\_

Date:

Contact Phone / Mobile No. :



# 2nd Free Service Activities

1. Water wash the vehicle and dry it with a clean cloth	
2. Electrolyte	Check level & top-up
3. Battery terminals	Clean and apply petroleum jelly
4. Drive chain free play	Check, clean, lubricate & adjust
5. Rear brake pedal pivot	Lubricate
6. Front & Rear brake	Check & top up brake fluid level
7. Wheel rim Front & Rear	Check spokes tightness
8. Front fork oil	Inspect for leakage
9. Air Filter element	Clean
10. Spark plugs(2Nos)	Check, clean & adjust gap
11. H.T. Leads	Inspect for cracks
12. Fuel Filter	Clean
13. Fuel pipe	Inspect for cracks
14. Rubber hose, Air filter to Carburetor	Inspect for cracks
15. Accelerator / TPS cable	Adjust play
16. Clutch cable	Adjust play
17. Engine oil	Check Level & Topup
18. Hand levers & kick starter pivot	Lubricate
19. Carburetor	Inspect & Tune
20. Steering free play	Check & adjust

## CUSTOMER COPY

Job Card No.:

Date:

Odo Reading:

Name of Dealer/  
ASP with Code:

ASP / Dealer's  
Stamp & Signature

# 3rd Free Service

## 3rd FREE SERVICE

6000 Kms

or

180 ± 15 days

whichever is  
earlier from the  
date of sale.

Enter the Details  
in Free Service  
Record.

(Cost of oil,  
oil filter element  
and other  
consumables  
used are  
chargeable to  
the customer

6000 KMS OR 180 ± 15 DAYS WHICHEVER IS EARLIER FROM DATE OF SALE

Customer Name :

Dealer Code:

Address :

Frame No :

Engine No :

Vehicle Installation From No :

ODO Reading :

Reg No :

Sale Date :

Service Date:

Service by:  
(Dealer's ASP Name & Address)

Sold by (Dealer's Name & Address)

Received the above vehicle after the service having been done to my entire satisfaction.

Customer Signature: \_\_\_\_\_

Date:

Contact Phone / Mobile No. :

# 3rd Free Service Activities

1. Water wash the vehicle and dry it with a clean cloth	
2. Electrolyte	Check level & top-up
3. Battery terminals	Clean and apply petroleum jelly
4. Drive chain free play	Check, clean, lubricate & adjust
5. Rear brake pedal pivot	Lubricate
6. Front / Rear brake	Check & top up brake fluid level
7. Wheel rim Front & Rear	Check spokes tightness
8. Tyre Front & Rear	Check wear & tread depth
9. Air Filter element	Clean
10. Spark plugs(2Nos)	Check, clean & adjust gap
11. H.T. Leads	Inspect for cracks
12. Fuel Filter	Clean
13. Fuel pipe	Inspect for cracks
14. Rubber hose, Air filter to carburetor	Inspect for cracks
15. Accelerator / TPS cable	Check & Adjust play
16. Clutch cable	Adjust play
17. Engine oil sump strainer	Clean
18. Engine oil & oil filter paper element	Replace
19. Swing arm spacer & pivot	Lubricate
20. Hand levers & kick starter pivot	Lubricate
21. Carburetor	Clean ( O/H or Spray * as required ) Inspect and Tune

\*Carb cleaner / Carblick or Fuel line Cleaner Spray. ( Make -Wurth or ITW Chemin )

## CUSTOMER COPY

Job Card No.:

Date:

Odo Reading:

Name of Dealer/  
ASP with Code:

ASP / Dealer's  
Stamp & Signature

# 4th Free Service

## 4th FREE SERVICE

9000 Kms  
or  
270  $\pm$  15 days  
whichever is  
earlier from the  
date of sale.  
Enter the Details  
in Free Service  
Record.  
(Cost of oil,  
oil filter element  
and other  
consumables  
used are  
chargeable to  
the customer

9000 KMS OR 270  $\pm$  15 DAYS WHICHEVER IS EARLIER FROM DATE OF SALE

Customer Name :

Dealer Code:

Address :

Frame No :

Engine No :

Vehicle Installation From No :

ODO Reading :

Reg No :

Sale Date :

Service Date:

Service by:  
(Dealer's ASP Name & Address)

Sold by (Dealer's Name & Address)

Received the above vehicle after the service having been done to my entire satisfaction.

Customer Signature: \_\_\_\_\_

Date:

Contact Phone / Mobile No. :

# 4th Free Service Activities

1. Water wash the vehicle and dry it with a clean cloth	
2. Electrolyte	Check level & top-up
3. Battery terminals	Clean and apply petroleum jelly
4. Drive chain free play	Check, clean, lubricate & adjust
5. Rear brake pedal pivot	Lubricate
6. Front & Rear brake	Check & top up brake fluid level
7. Wheel rims	Check spokes tightness
8. Front fork oil	Replace Oil
9. Air Filter element	Clean
10. Spark plugs(2Nos)	Check, clean & adjust gap
11. H.T. Leads	Inspect for cracks
12. Fuel Filter	Clean
13. Fuel pipe	Inspect for cracks
14. Rubber hose, Air filter to carburetor	Inspect for cracks
15. Accelerator / TPS cable	Check & Adjust play
16. Clutch cable	Adjust play
17. Engine oil	Check & topup
18. Hand levers & kick starter pivot	Lubricate
19. Steering System	Check Lubricate Steering Balls & Adjust
20. Tyres	Check wear & tread depth
21. Carburetor	Inspect & Tune

## CUSTOMER COPY

Job Card No.:

Date:

Odo Reading:

Name of Dealer/  
ASP with Code:

ASP / Dealer's  
Stamp & Signature

# Paid Service/Maintenance Record

## CUSTOMER COPY

12,000 ± 250 Kms Service

Job Card No : ..... Date .....

Odo Reading : ..... Dealer Code .....

Brief Work Done :

Dealer's Stamp & Signature

## DEALER / ASP COPY

12,000 ± 250 Kms Service

Job Card No : ..... Date .....

Odo Reading : ..... Dealer Code .....

Brief Work Done :

Dealer's Stamp & Signature

## CUSTOMER COPY

15,000 ± 250 Kms Service

Job Card No : ..... Date .....

Odo Reading : ..... Dealer Code .....

Brief Work Done :

Dealer's Stamp & Signature

## DEALER / ASP COPY

15,000 ± 250 Kms Service

Job Card No : ..... Date .....

Odo Reading : ..... Dealer Code .....

Brief Work Done :

Dealer's Stamp & Signature

# Paid Service/Maintenance Record

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## DEALER / ASP COPY

12,000 ± 250 Kms Service

Brief Work Done :

Dealer's Stamp & Signature

## CUSTOMER COPY

12,000 ± 250 Kms Service

Brief Work Done :

Dealer's Stamp & Signature

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## DEALER / ASP COPY

15,000 ± 250 Kms Service

Brief Work Done :

Dealer's Stamp & Signature

## CUSTOMER COPY

15,000 ± 250 Kms Service

Brief Work Done :

Dealer's Stamp & Signature

# Paid Service/Maintenance Record

## CUSTOMER COPY

18,000 ± 250 Kms Service

Job Card No : ..... Date .....

Odo Reading : ..... Dealer Code .....

Brief Work Done :

Dealer's Stamp & Signature

## DEALER / ASP COPY

18,000 ± 250 Kms Service

Job Card No : ..... Date .....

Odo Reading : ..... Dealer Code .....

Brief Work Done :

Dealer's Stamp & Signature

## CUSTOMER COPY

21,000 ± 250 Kms Service

Job Card No : ..... Date .....

Odo Reading : ..... Dealer Code .....

Brief Work Done :

Dealer's Stamp & Signature

## DEALER / ASP COPY

21,000 ± 250 Kms Service

Job Card No : ..... Date .....

Odo Reading : ..... Dealer Code .....

Brief Work Done :

Dealer's Stamp & Signature



# Paid Service/Maintenance Record

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## DEALER / ASP COPY

18,000 ± 250 Kms Service

Brief Work Done :

Dealer's Stamp & Signature

## CUSTOMER COPY

18,000 ± 250 Kms Service

Brief Work Done :

Dealer's Stamp & Signature

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## DEALER / ASP COPY

21,000 ± 250 Kms Service

Brief Work Done :

Dealer's Stamp & Signature

## CUSTOMER COPY

21,000 ± 250 Kms Service

Brief Work Done :

Dealer's Stamp & Signature

# Paid Service/Maintenance Record

## CUSTOMER COPY

24,000 ± 250 Kms Service

Job Card No : ..... Date .....

Odo Reading : ..... Dealer Code .....

Brief Work Done :

Dealer's Stamp & Signature

## DEALER / ASP COPY

24,000 ± 250 Kms Service

Job Card No : ..... Date .....

Odo Reading : ..... Dealer Code .....

Brief Work Done :

Dealer's Stamp & Signature

## CUSTOMER COPY

27,000 ± 250 Kms Service

Job Card No : ..... Date .....

Odo Reading : ..... Dealer Code .....

Brief Work Done :

Dealer's Stamp & Signature

## DEALER / ASP COPY

27,000 ± 250 Kms Service

Job Card No : ..... Date .....

Odo Reading : ..... Dealer Code .....

Brief Work Done :

Dealer's Stamp & Signature

# Paid Service/Maintenance Record

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## DEALER / ASP COPY

24,000 ± 250 Kms Service

Brief Work Done :

Dealer's Stamp & Signature

## CUSTOMER COPY

24,000 ± 250 Kms Service

Brief Work Done :

Dealer's Stamp & Signature

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## DEALER / ASP COPY

27,000 ± 250 Kms Service

Brief Work Done :

Dealer's Stamp & Signature

## CUSTOMER COPY

27,000 ± 250 Kms Service

Brief Work Done :

Dealer's Stamp & Signature

# Paid Service/Maintenance Record

## CUSTOMER COPY

30,000 ± 250 Kms Service  
Job Card No : ..... Date .....

Odo Reading : ..... Dealer Code .....

Brief Work Done :

Dealer's Stamp & Signature

## DEALER / ASP COPY

30,000 ± 250 Kms Service  
Job Card No : ..... Date .....

Odo Reading : ..... Dealer Code .....

Brief Work Done :

Dealer's Stamp & Signature

## CUSTOMER COPY

33,000 ± 250 Kms Service  
Job Card No : ..... Date .....

Odo Reading : ..... Dealer Code .....

Brief Work Done :

Dealer's Stamp & Signature

## DEALER / ASP COPY

33,000 ± 250 Kms Service  
Job Card No : ..... Date .....

Odo Reading : ..... Dealer Code .....

Brief Work Done :

Dealer's Stamp & Signature

# Paid Service/Maintenance Record

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## DEALER / ASP COPY

30,000 ± 250 Kms Service

Brief Work Done :

Dealer's Stamp & Signature

## CUSTOMER COPY

30,000 ± 250 Kms Service

Brief Work Done :

Dealer's Stamp & Signature

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## DEALER / ASP COPY

33,000 ± 250 Kms Service

Brief Work Done :

Dealer's Stamp & Signature

## CUSTOMER COPY

33,000 ± 250 Kms Service

Brief Work Done :

Dealer's Stamp & Signature

# Regional & Area Offices

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## **R1 : Chandigarh, H.P, J&K, Punjab**

Royal Enfield  
SCO-269, Second Floor, 16 Sector,  
PANCHKULA (Haryana)  
Pin Code - 134 113,  
Ph: 0172-5011255, 5011251

## **R2 : Delhi, Haryana, NCR & Rajasthan**

Royal Enfield  
C/O EICHER ENGG. COMPONENTS  
Plot No. 7, HSIDC Industrial Area,  
Sector 18, Palam Gurgaon Road,  
GURGAON (Haryana) - 122 015,  
Ph: 0124-4278138 / 4278139  
Fax: 4382148

Royal Enfield  
G-5, 6,7, Gitanjali Towers,  
Ajmer Road, JAIPUR - 302 006.  
Ph: 141-5143434 / 4034748  
Fax: 0141-5125657

## **R3 : Bihar, Uttaranchal & Uttar Pradesh**

Royal Enfield  
UGF-109, Cross Road Plaza,  
Badshaha Nagar Chauraha,  
Near Flyover, Faizabad Road,  
LUCKNOW - 226 006.  
Ph: 0522-4004640 Fax: 4005973

## **R4 : Assam, N.E. & West Bengal**

Royal Enfield  
C/O V.E.Commercial Vehicle Ltd.  
1st Floor, P.S.Tower,  
No. 13, Bondel Road,  
KOLKATA - 700 019  
Tel: 033-40060206 / 0209  
Mob: 09748664010 / 09830935285

## **R5 : Gujarat & M.P**

Royal Enfield  
B-306, Shapath-IV,  
Opp. Karnavati Club,  
S.G. Highway.  
AHMEDABAD - 380 015,  
Ph: 079-29086118  
Fax: 079-40024461

## **R6 : Goa & Maharashtra**

Royal Enfield

Plot No, 16, Sector - 1  
Sion Panvel Highway, Nerul,  
NAVI MUMBAI - 400 706.  
Ph: 022-27700395, 27700501  
Royal Enfield  
203, 204 Sneha ganga,  
New Vega Centre,  
Shankar Seth Road, Swargate,  
PUNE - 411 037.  
Ph: 020-40028090, Fax: 24447174

## **R7 : A.P, Chattisgarh, Jharkhand & Orissa**

Royal Enfield  
2-3-52/1 & 2-3-42/52,  
Unit No. 4, 2nd Floor,  
Maitri Arcade, M,G, Road,  
Ranigunj,  
Opp. To Hotel Plaza,  
SECUNDERABAD-500 003.  
Ph: 040-4020 1080, 4202 1080  
Fax: 40201090  
Royal Enfield  
A Unit of Eicher Motors Ltd.  
407, 4th Floor, Nirmal Plaza,

Forest Park, BHUBANESWAR - 751 009.  
Ph: 0674-6540206

## **R8 : Karnataka, Kerala, Tamilnadu & Puducherry**

Royal Enfield  
Plot No. 350 to 354,  
1st Floor, 4th Link Street,  
Nehru Nagar, Kottivakkam,  
(OMR-IT Highway)  
CHENNAI-600 096.  
Ph: 044-42070661,24540855,  
2450828  
Royal Enfield  
Door No.2067/1, 2068/2  
East End"A"Main  
9th Block, jayanagar,  
BANGALORE - 560 069.  
Ph: 22440588 / 41753277/  
41536488  
Royal Enfield  
25/85A,Opp. to IOC Pump,  
Koonamthai, Edappally Post,  
KOCHI - 682 024.  
Ph: 0484 - 6494990, Fax: 2543616

# Log Book

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Sl. No.	Date	Kms	Details	Idling CO %	Dealer/Authorised Service Point	
					Job Card No.	Stamp & Signature

# Log Book

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Sl. No.	Date	Kms	Details	Idling CO %	Dealer/Authorised Service Point	
					Job Card No.	Stamp & Signature







# Notes

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# Notes

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# Notes

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## FORM 22

[ See Rules 47(g), 115, 124(2), 126A and 127(1), 127(2) ]

### INITIAL CERTIFICATE OF COMPLIANCE WITH POLLUTION STANDARDS, SAFETY STANDARDS OF COMPONENTS AND ROAD WORTHINESS

Certified that the following vehicle complies with the provisions of the Motor Vehicles Act, 1988, and the rules made there under, including the following mass emission norms:

Brand Name of the Vehicle : Thunderbird 350  
Chassis Number :  
Engine Number / Motor Number :  
(incase of Battery Operated Vehicles)  
Sub-Rule No. of Rule : 115(2)(i), 115(14)(F)  
Emission Norms  
[Bharat Stage-I/II/III/ Bharat (Trem) Stage-III etc] : Bharat Stage III

Date :

For ROYAL ENFIELD



Quality Assurance