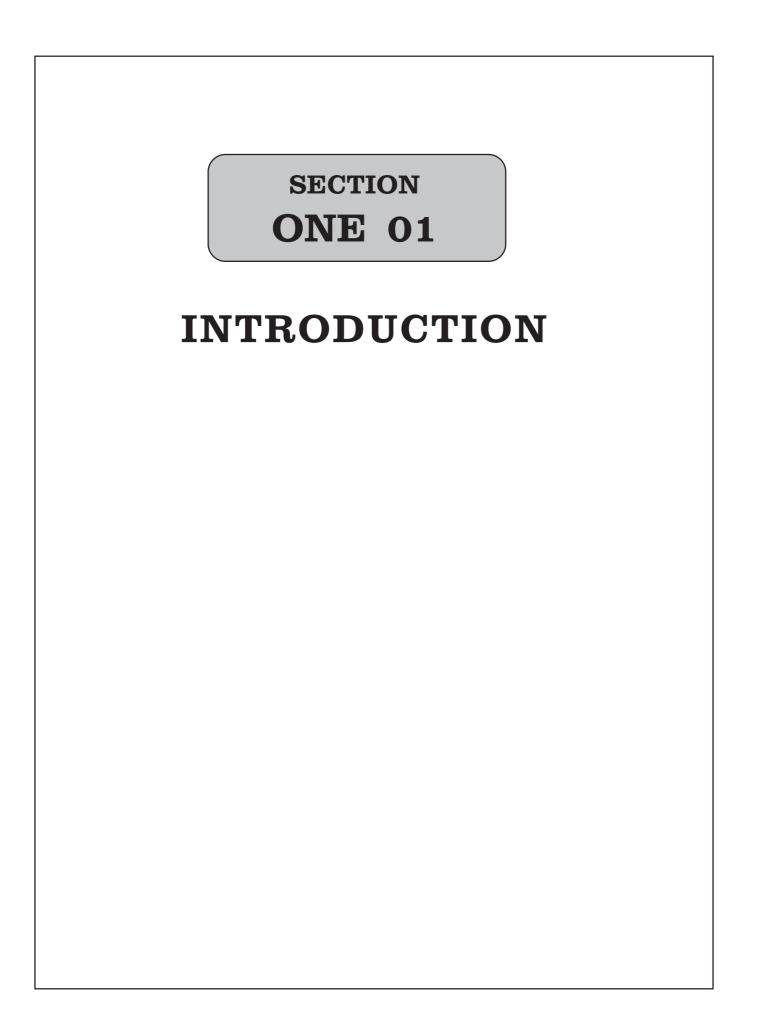
Service Manual Classic 500 & 350



Foreword

PREPARATION FOR SERVICE

Good preparation is very important for carrying out correct service job. The motorcycle should be cleaned well before starting a repair job. Cleaning will occasionally uncover sources of trouble. Availability of tools, measuring instruments and parts should be ensured before commensing an overhaul, since Interruption to locate tools or parts can cause distraction and needless delay. Use of special tools will ensure a quality service.

USE OF GENUINE SPARE PARTS

Use only genuine Royal Enfield spares whenever replacing parts. Use of non genuine parts can seriously affect motorcycle performance and may result in costly rework, vehicle down time and above all customer dissatisfaction.

NOTE :

Proper service and repair is important for the safe and reliable operation of all mechanical products. The service procedures recommended and detailed in this manual will help to carry out correct repairs.

SAFETY

Every care is taken to ensure that the information given in this manual is correct at the time of going to print. However, Royal Enfield does not assume responsibility for any damage, loss or injury caused to the vehicle or to the person carrying out repairs, due to errors or omissions in this manual.

IMPORTANT NOTICE

All images shown are only for reference to explain and may not be exactly the same on the motorcycle. Technical specifications are subject to change without prior notice.

Because of changes that may occur in the manufacturing process, since this manual was printed, it is possible some instructions or illustrations found within this manual may differ from those found on the vehicle. However the technical information found within this manual is correct at the time, when it was approved for printing.

Future modifications, improvements etc will be communicated to our Authorised Distributors / Importers as and when changes are done to the motorcycle.

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Contents

HOW TO USE YOUR SERVICE MANUAL

Pictorial presentation of various activities, make this manual easy to understand and user friendly.

This service manual is divided into 10 Sections 01 to 10. Page numbers for each section starts with 01. Thus, page 05-10 indicates 10th page of section 5.

The sections are subdivided into subjects and presented in the following order.

SECTION ONE O1 INTRODUCTION

The manual and its arrangements

SECTION TWO 02 GENERAL

Salient features of the Unit construction engine & engine management system

Four stroke cycle operation Basic terminology of IC Engine Technical specifications Identification of Chassis & Engine No. List of special tools & its applications

Control cables and wiring harness routing.

SECTION THREE 03 SERVICE DATA

Service limits of components Periodical maintenance chart

SECTION FOUR 04 ENGINE

Engine Lubrication system Lubrication system Hydraulic Tappets (RHVL) Auto decompressor Electric starting system & sprag mech. Auto Chain Tensioner Assembly Engine breather System Inlet manifold & Throttle body Blow up Charts

SECTION FIVE 05 ENGINE DISMANTLING INSPECTION & ASSEMBLY

Engine dismantling procedure

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- Torque Specification Engine

SECTION SIX 06 ENGINE MANAGEMENT SYSTEM (EMS)

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Instruction Do's & Dont's on EMS

Trouble shooting - EMS

SECTION SIX 07 CV CARBURETOR

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- Bleeding procedure
- Dis assembly of master cylinder
- Reassembly of master cylinder
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- Caliper Assembly
- Wheel Disc inspection
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SECTION NINE 09 SUSPENSION AND STEERING

Front fork working principle Front fork - disassembly Steering stem removal & reassembly Gas filled shock absorber

- Working principle
- Removal and assy. of shock absorber
- Recharging of shock absorber

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- Removal
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Centre Stand Disassembly

SECTION TEN 10 ELECTRICALS

Electrical symbols Battery

- Precautions
- Charging

- Maintenance

Spark plug maintenance & Inspecton Checking procedure of electrical components:

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- Relay starter
- E-Starter motor
- IC Flasher
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- Electrical parts Inspection
 - Clutch switch
 - Starter switch

Do's and Dont's

Complete Wiring diagram - Classic 500

Complete Wiring diagram - Classic 350 Trouble shooting - Electricals

SECTION ELEVEN 11 TROUBLE SHOOTING

SAFETY DEFINITIONS

Important aspects to be noted are given as follows in the manual.

NOTE :

Provides important information that will have to be adhered to while carrying out repairs.

CAUTION :

Indicates activities that are important to be noted. Non-adherance may result in breakage and or functional failures of the assembly.

SPECIAL TOOLS

Contains details of the special tools and its usage, These tools have been specially designed for a specific purpose.

