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RS125 INTRODUCTION

INTRODUCTION

0

SUMMARY

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0.1. INTRODUCTION

0.1.1. FOREWORD

This manual provides the information required for normal servicing.

This publication is intended for use by **aprilia** Dealers and their qualified mechanics; many concepts have been omitted on purpose as their inclusion would be superfluous. Since complete mechanical explanations have not been included in this manual, the reader must be familiar with basic notions of mechanics, as well as with basic repair procedures. Without such familiarity, repairs and checks could be ineffective and even hazardous. Since the repair and vehicle check instructions are not exhaustive, special care must be taken to avoid damage and injury. **Piaggio & C. S.p.A.** undertakes to constantly improve the design of its products and the relevant literature to ensure maximum customer satisfaction. The main technical modifications and changes in repair procedures are communicated to all **aprilia** dealers and agencies worldwide. Such modifications will be entered in subsequent editions of the manual. Should you need assistance or clarifications about the inspection and repair procedures, please contact the **aprilia** SERVICE DEPT., they will be glad to give you any information on the matter, or supply you with any detail on updates and technical changes applied to the vehicle.

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0.1.2. REFERENCE MANUALS

SPARE PARTS CATALOGUE

MANUALI ATTREZZI SPECIALI

aprilia part# (des	cription))			
8202278	0	3	D	ш	UK

CHASSIS WORKSHOP MANUAL

aprilia part# (description)					
8104972	•				
8104973	•				
8104974	0				
8104975	0				
8104976	UK				
8CM0101					

ENGINE TECHNICAL MANUAL

aprilia part# (description)					
8140880	•				
8140883	•				
8140881	•				
8140882	0				
8140884	UK				
8CM0027					

OWNER'S MANUALS

aprilia part# (description)							
Model Year 1993							
8102260							
	Model Year 1994						
8102260	0						
8102319	D	(F)	UK				
Model Yea	ar 1995			l			
8102476	0						
8102530	D	(UK)	Œ				
8102543	(E)						
Model Yea	ar 1996			L			
8102685	0						
8102682	9	UK	0				
8102530	D	(UK)	Œ				
8102683	0	(E)	NL				
8102543	E						
Model Yea	ar 1997						
8102685	0						
8102682	D	(UK)	Œ				
8102683	•	Œ	NL				
8102530	D	(UK)	Œ				
8102543	E						
8102752	DK	8F	GR				
8102753	DK		Ø				
Model Yea	ar 1998						
8102685	0						
8102682	D	UK)	Œ				
8102683	0	Œ	NL				
8102849	DK)						
8102934	D	(UK)	Œ	AUS			
Model Yea	ar 1999						
8102821	0	•	D				
8102937	0	(E)	(UK)	AUS			
8102938	DK)	(NL)	(SF)				
8102939	GR	Ō	UK				
Model Yea	ar 2001			L			
8202248	USA						
8102821	0	0	D				
8102937	0	Œ	UK)	AUS			
8102938	DK	NL	8F				
8102939	GR)	Ō	UK)				
Model Year 2002							
8104465	0	0	D				
8104466	0	•	UK				
8104467	DK)	(NL)	8F				
8104468	GR	ō	UK)				
Model Yea	ar 2006						
8104917	0						
8104934	(F)	D	E	(UK)			
8104935	(NL)	DK)	8F	GR	0		
	-		-				

0.1.3. ABBREVIATIONS/SYMBOLS/CONVENTIONS

= number
< = less than
> = greater than
≤ = less than or equal to
≥ = more than or equal to
~ = approximately

∞ = infinity

°C = degrees Celsius (centigrade)

°F = degrees Fahrenheit ± = plus or minus a.c = alternating current

A = Ampere

Ah = Ampere per hour

API = American Petroleum Institute

AT = high voltage

AV/DC = Anti-Vibration Double Countershaft

bar = pressure measurement unit (1 bar = 100 kPa)

d.c. = direct current
 cc = cubic centimetres
 CO = carbon monoxide
 CPU = Central Processing Unit

DIN = German industrial standards (Deutsche Industrie Norm)

DOHC= Double Overhead CamshaftECU= Electronic Control Unitrpm= revolutions per minuteHC= unburnt hydrocarbonsISC= Idle Speed Control

ISO = International Standardisation Organisation

kg = kilograms

kgm = kilograms per metre (1 kgm = 10 Nm)

km = kilometres
km/h = kilometres per hour

 $\mathbf{k}\Omega$ = kiloOhm

kPa = kiloPascal (1 kPa = 0.01 bar)

KS = clutch side (from the German "Kupplungsseite")

kW = kilowatt e = litres LAP = racetrac

LAP = racetrack lap LED = Light Emitting Diode

LEFT

SIDE = left side

m/s = metres per second

max = maximum

mbar = millibar (1 mbar = 0.1 kPa)

mi= milesMIN= minimumMPH= miles per hour

MS = flywheel side (from the German "Magnetoseite")

 $\mathbf{M}\Omega$ = MegaOhm N.A. = Not Available

N.O.M.M. = Motor Octane Number N.O.R.M. = Research Octane Number Nm = Newton metre (1 Nm = 0.1 kgm)

 Ω = ohm PICK-UP = pick-up

BDC = Bottom Dead Centre
TDC = Top Dead Centre
PPC = Pneumatic Power Clutch

RIGHT

SIDE = right side

SAE = Society of Automotive Engineers

TEST = diagnostic check
T.B.E.I. = crown-head Allen screw
T.C.E.I. = cheese-head Allen screw

T.E. = hexagonal headT.P. = flat head screwTSI = Twin Spark Ignition

UPSIDE-

DOWN = inverted fork

V = volt
 W = watt
 Ø = diameter

GENERAL INFORMATION

1

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RS125

1.1. GENERAL INFORMATION

1.1.1. CONVENTIONS USED IN THE MANUAL

- This manual is divided in sections and subsections, each covering a set of the most significant components. Refer to the index of sections when consulting the manual.
- Unless expressly specified otherwise, assemblies are reassembled by reversing the dismantling procedure.
- The terms "right" and "left" are referred to the rider seated on the vehicle in the normal riding position.
- Motorcycle operation and basic maintenance are covered in the "OWNER'S MANUAL".

In this manual any variants are identified with these symbols:

- optional
- catalytic version
- Full Power version
- all versions
- 250 cc version
- 200 cc version
- 125 cc version
- MP national certification
- SF European certification (EURO 3 limits)

VERSION:

•	Italy	GR	Greece	an.	Malaysia
UK	United Kingdom	NL.	Holland	RCH	Chile
•	Austria	CH	Switzerland	(HR)	Croatia
P	Portugal	DK	Denmark		Australia
❸	Finland	•	Japan	USA	United States of America
B	Belgium	egp)	Singapore	BR	Brazil
D	Germany	ELD)	Slovenia	FSA	South Africa
•	France	•	Israel	NZ	New Zealand
•	Spain	ROK	South Korea	(CDN)	Canada