GENERAL

aprilia sxv 450 550 rxv 450 550 manuale officina 2007 2009

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Introduction

April bikes have long been celebrated for their blend of performance, reliability, and unmistakable Italian flair. Among the most iconic models from the late 2000s are the SXV 450, SXV 550, RXV 450, and RXV 550. These machines, produced between 2007 and 2009, captured the hearts of commuters and enthusiasts alike with their robust engines, comfortable ergonomics, and versatile handling. For owners and mechanics, a **manuale officina**—the workshop manual—becomes an indispensable companion, offering step by step guidance on everything from routine maintenance to complex repairs.

This article dives deep into the essential knowledge you'll need to keep your Aprilia SXV or RXV running smoothly. We'll explore the manual's structure, highlight key maintenance tasks, provide troubleshooting tips, and share practical advice for extending the life of these beloved motorcycles. Whether you're a seasoned mechanic or a DIY rider, this guide will help you navigate the intricacies of the 2007 2009 Aprilia models with confidence.

1. Overview of the Aprilia SXV and RXV Series

1.1 Historical Context

In the early 2000s, Aprilia positioned itself as a leader in the commuter bike segment, focusing on engines that balanced power with fuel efficiency. The SXV (Sport eXe) and RXV (Road eXe) lines were launched in 2007 to cater to riders seeking a blend of sport performance and everyday practicality. The SXV 450 and 550 models were equipped with liquid cooled, four stroke, single engine configurations, while the RXV variants offered slightly different ergonomics and accessory options to suit urban commuters.

1.2 Model Variants

- April SXV 450 (2007 2009) – 449 /cc single engine, 32 /hp, 28 /Nm torque.
- April SXV 550 (2007 2009) – 549 /cc single engine, 39 /hp, 33 /Nm torque.
- April RXV 450 (2007 2009) – 449 /cc single engine, 32 /hp, 28 /Nm torque, more upright seating.
- April RXV 550 (2007 2009) – 549 /cc single engine, 39 /hp, 33 /Nm torque, similar powertrain to SXV 550.

All four models share common mechanical components—such as the engine block, gearbox, and fuel injection system—making the **manuale officina** a valuable resource across the lineup.

2. Why a Workshop Manual Matters

Owning a motorcycle is one thing; maintaining it is another. A workshop manual provides:

- Precise torque specifications for bolts and fasteners.
- Step by step disassembly and reassembly procedures.
- Diagnostic charts and troubleshooting flowcharts.
- Service schedules tailored to the specific model and year.

Without it, you risk over tightening components, misaligning critical parts, or overlooking hidden wear that could compromise safety.

3. Key Sections of the Manual

Below is an overview of the main chapters you'll find in the 2007 2009 Aprilia workshop manual:

1. Introduction & Safety – Covers general safety guidelines and an overview of the motorcycle's systems.
2. Engine – Detailed instructions on oil changes, valve adjustments, and cooling system maintenance.
3. Fuel System – Covers fuel injection, fuel pump, and fuel filter replacement.
4. Transmission & Clutch – Explains clutch cable adjustment, gearbox service, and torque converter maintenance.
5. Brakes & Suspension – Provides brake pad replacement, fork adjustment, and shock servicing.
6. Electrical & Electronics – Guides on battery, alternator, and instrument cluster troubleshooting.
7. Body & Frame – Includes frame inspection, paint touch ups, and accessory installation.
8. Service Intervals – Lists recommended maintenance schedules based on mileage and time.
9. Appendix & Glossary – Definitions of technical terms and a list of recommended tools.

4. Getting Started with the Manual

4.1 Safety First

Before you dive into any repair, ensure you:

- Wear protective gear: gloves, goggles, and closed toed shoes.
- Work on a level surface with a stable motorcycle stand.
- Disconnect the battery and remove the fuel cap to prevent accidental ignition.
- Keep a fire extinguisher within reach.

4.2 Essential Tools

While the manual lists a full toolkit, these items are particularly useful for the 2007 2009 models:

- Metric socket set (10 /mm to 26 /mm).
- Torque wrench (0–40 /Nm).
- Feeler gauge.
- Multimeter.
- Oil filter wrench.
- Brake bleeder kit.
- Spark plug socket (6 /mm).
- Service manual with a magnifying glass for small screws.

4.3 How to Read the Manual

Each chapter begins with a schematic diagram, followed by a table of parts and a step by step procedure. The manual uses a consistent notation system: **R** for remove, **F** for fasten, **W** for wire, and **T**for torque. Pay close attention to the torque values; they are critical to avoid over tightening.

5. Engine Maintenance

5.1 Oil Changes

The SXV and RXV engines use 10W 40 fully synthetic oil. The manual recommends an oil change every 2,500 km (or 12 /months) for normal use. If you ride aggressively or in dusty conditions, consider changing every 1,500 /km.

1. Warm the engine for 5 /minutes to ensure proper flow.
2. Place a drain pan under the oil sump.

3. Remove the oil filter and drain the old oil.
4. Install a new filter with a light layer of oil on the gasket.
5. Refill the engine with the recommended oil volume (approximately 3.3 /L for the SXV 450).
6. Check the oil level with the dipstick and top up if necessary.

5.2 Spark Plug Replacement

Replace the spark plugs every 5,000 /km or 12 /months. Use the specified 0.5 /mm gap (for the SXV 550) and a 6 /mm spark plug socket. The manual provides a table of recommended spark plugs for each model.

5.3 Valve Adjustments

Valve lash should be checked and adjusted at every oil change. The standard lash values are:

- Intake: 0.10 /mm.
- Exhaust: 0.15 /mm.

Use a feeler gauge and a torque wrench to set the correct lash. The manual includes a diagram of the valve cover removal process.

5.4 Cooling System

Both SXV and RXV models have a liquid cooled engine. Flush the coolant system every 15,000 km. Use a 50/50 mix of distilled water and antifreeze (type 4). The manual outlines the procedure for draining, refilling, and checking for air pockets.

5.5 Common Engine Issues

- Engine stalls at idle – Check the idle air control valve (IAC) and throttle cable tension.
- Loss of power – Inspect the fuel filter and fuel pump pressure.
- Overheating – Verify coolant levels and thermostat operation.

6. Fuel System & Injection

6.1 Fuel Injection Basics

The Aprilia SXV and RXV use a Bosch Motronic 5.0 fuel injection system. The manual explains how the ECU maps fuel delivery based on sensor inputs. Understanding this system helps diagnose performance issues.

6.2 Fuel Filter Replacement

Replace the fuel filter every 12,000 km. The filter is located under the seat; simply disconnect the fuel lines, remove the old filter, and install a new one.

6.3 Fuel Pump Maintenance

Check the fuel pump pressure with a gauge. The manual lists the normal operating range: 3.5–4.5 bar. Low pressure indicates a failing pump or clogged fuel line.

7. Transmission & Clutch

7.1 Clutch Cable Adjustment

Adjust the clutch cable to maintain a 2–3 mm free play. The manual shows the correct method for adjusting the barrel and checking cable tension.

7.2 Gearbox Service

Change the gearbox oil every 10,000 km. Remove the gearbox cover, drain the oil, replace the filter, and refill with

the recommended 10W 40 gear oil. Torque the cover bolts to 20 /Nm.

7.3 Common Transmission Problems

- Hard shifting – Inspect the gear shift lever and linkage.
- Gear slippage – Check clutch plates for wear.
- Gearbox noise – Verify oil level and filter condition.

8. Brakes & Suspension

8.1 Brake Pad Replacement

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