



UPGRADE BOOK

# APRILIA RXV 450 Replica MERRIMAN MY 08



ENGLISH VERSION



# CONTENTS

SPECIFICATION OVERVIEW TABLE	3
VEHICLE START-UP	4
CHANGING ECU MAPPING	5
HEADLIGHT	5
FOOTPEG GUARDS	6
ENGINE GUARD	6
REAR MONO SHOCK ABSORBER	7
SLIPPER CLUTCH	9





# SPECIFICATION OVERVIEW TABLE

FRONT FORK	
Туре	Marzocchi Shiver 50
Travel	300 mm
Standard setting of compression damping	15 clicks out from fully in
Standard setting of rebound damping	15 clicks out from fully in
Steering angle	27°
Fork offset	20 mm

REAR SHOCK ABSORBER	
Туре	Sachs racing mono-shock
Travel	139 mm
Spring rate (K) of standard spring	5.2 kgf/mm
Standard setting of high-speed compression damping	9 clicks out from fully in
Standard setting of low-speed compression damping	14 clicks out from fully in
Standard setting of rebound damping	15 clicks out from fully in

APTC CLUTCH	
Assembled w/spring preload adjusting washers as standard	/
3 spring preload washers supplied as standard	thickness 1 mm
3 spring preload washers supplied as standard	thickness 1,5 mm
3 washers to reduce spring preload supplied as standard	thickness 1 mm
Clutch plate pack wear limit	34.20 mm

FRONT / REAR CHAIN SPROCKETS	
Standard front chain sprocket RXV Merriman 450	z=14
Standard rear chain sprocket RXV Merriman 450	z=50





# **VEHICLE START-UP**

Switch on the electric system using the ON/OFF button on the left side of the vehicle, before the radiator.

Start the engine using the starter button on the right side of the handlebar.

To stop the engine, press the stop button on the left side of the handlebar.









# **CHANGING ECU MAPPING**

When you replace the standard exhaust with the supplied exhaust and update ECU mappings, you may choose between two different ECU mappings.

Mappings may be changed while running.

Operate the button on the left side of the handlebar to choose between the HARD and SOFT mode.



## HEADLIGHT

#### SWITCHING ON THE HEADLIGHT

Only the low beam is available.

Operate the switch on the right side of the trim frame.

#### **BEAM SETTING**

Turn the adjusting screw under the headlight.











# **FOOTPEG GUARDS**

This vehicle is equipped with metal guards under the rider footpegs.

Their purpose is to keep out any debris which may prevent the footpegs from folding out in the event of accidental closing.

To install/remove the guards, bend their ends.



# **ENGINE GUARD**

#### ENGINE GUARD REMOVAL

Loosen and remove the two screws.

Unscrew the screw 1.

To remove the bracket, unscrew nut 2 from both sides.









# **REAR MONO SHOCK ABSORBER**

#### DAMPING ADJUSTMENT

To set compression damping, turn the golden screw inside the light blue knob.

To set the kick-in threshold for the bypass valve (high-speed compression damping), turn the light blue knob.

To set rebound damping, turn the indicated screw.



WARNING

Do not force the screws beyond their end stops. Overtightening may damage the hydraulic sys-tem



Loosen the set screw of the spring preload adjusting ring nut.

Use the supplied adjusting pin to turn the ring nut until achieving the desired spring preload.

When finished, tighten the set screw.











### **RIDE HEIGHT ADJUSTMENT**

There are three ride height settings available.

Ride height is adjusted by changing or rotating the bush shown in the picture into the desired position.

There are two bushes available:

 $A \rightarrow$  Mean height bush

 $B \rightarrow$  Eccentric bush for maximum or minimum height (de-pending on mounting position)











# **SLIPPER CLUTCH**



# WARNINGA

SPECIAL TOOL IS REQUIRED TO REFIT THE CLUTCH. TO BUILD YOUR OWN TOOL, SEE TECHNICAL DRAWINGS AT WWW.SERVICEAPRILIA.COM (OFF-ROAD SECTION).

#### REMOVING THE CLUTCH FROM THE ENGINE

Remove the engine guard.

Remove the rear brake lever.

Remove the clutch casing.

Install the three service sleeves.

Remove the three screws complete with springs.



WARNING On refitting, tighten the screws to 8 Nm.













Remove the pressure plate.

Make sure to collect the washer located on the inside of the pressure plate.

Remove the stud (1). Bend the tab of the safety washer.

Unscrew and remove the nut (2). Withdraw the clutch plate pack.



/!\

#### WARNING

Use the appropriate special tool for removal and reassembly procedures.

WARNING Tighten the nut to 85 Nm.

#### **CLUTCH INSTALLATION**

One of the clutch plates has a smaller friction surface than the other plates.

This plate must be mated to shim and Belleville washer, and goes in first when installing the plates on the mobile hub.













Fit shim and Belleville washer with the concave side facing up to the mobile hub.

Place the mobile hub into the clutch housing. This will facilitate plate installation and positioning.

Insert the clutch plates; install the plate with the smaller friction surface first.

Position the three springs into their seats in the fixed hub.









Remove the mobile hub complete with plates from the housing.

Ensure the plates do not rotate relative to one another.

Turn over the mobile hub complete with plates so as to bring mark 1 in view.

Insert the mobile hub complete with plates into the fixed hub so as to line up mark 1 with mark 2.

Ensure that the springs are in the correct position between the two hubs.

The springs have their seats.

Position and tighten the service studs making sure the plain plates do not slip off the mobile hub. Do not tighten yet so you will be able to easily turn the plates and facilitate correct positioning into the housing.

Insert the hubs complete with plates into the housing, rotating the last plate by one position. This will reduce clutch noise.











# AVAILABLE ADJUSTMENTS

Clutch stiffness can be adjusted by modifying spring preload. Spring preload may be changed by adding one washer for each spring. The kit supplied with the vehicle includes three types of washers:

A - n.3 1.5-mm washers to add preload

- B n.3 1-mm washers to add preload
- C n.3 washers to decrease preload



WARNING Install only one washer for each spring.

#### WASHER INSTALLATION TO INCREASE PRELOAD

(fit between Belleville washer and spring)





## WASHER INSTALLATION TO DECREASE PRELOAD





