



Date: June 20, 2008
From: Aprilia USA
To: All Aprilia Dealers

Service Communication: 2008-002 USA  Designation

Subject: Re-issue of recall 05V-538: 2004 – 2005 RSV 1000 Swing arm replacement

IMPORTANT NOTE: This Service Communication is an updated version of 2005-007, the original communication on this recall. This updated communication contains new information on part numbers and warranty claiming. Please archive communication 2005-007. For all future swing arm replacements under this recall, use only the information provided below.

VIN range: Recall 05V-538 has been active since October 2006. As a result many of the motorcycles within the affected VIN range have already been updated. Please use the visual identifiers and information from GGP to ensure that the motorcycle you are working on still requires the updates described below. Do not repeat the update if the motorcycle has already been corrected.

Concern: The rear swing arm on the 2004 and 2005 RSV 1000 can develop a stress crack along the inside wall of the left arm of the rear swing arm, beginning at the nut insert which secures the lower chain guard.

Correction: The replacement swing arm eliminates the nut insert hole used to secure the lower chain guard. A black metal bracket found in the recall kit is now used to secure the lower chain guard to the upper chain guard. In addition, the inside wall thickness was increased from 2.5 mm to 4 mm and to 3 mm for the external wall of the swing arm.

Owner Notification: Recall 05V-538 has been active since October 2006. As a result, many of the motorcycles within the affected VIN ranges have already been updated and the record of these updates noted in the warranty system. Prior to renotifying owners of motorcycles within the affected VIN ranges, Aprilia USA will remove all the VINs that have been updated and claimed in GGP. While the goal is to notify the current owners to the necessity of having the updates required of this recall completed, Aprilia USA does not want to duplicate repairs for owners that have already had the recall successfully completed.

Each owner of an affected motorcycle will be notified by first class mail. In this letter Aprilia USA will describe the details of the concern, the cause and the correction addressed by this recall. In addition, Aprilia USA asks that each owner contact an authorized Aprilia dealer to arrange an appointment to have the parts and labor required of this recall completed. Please make every effort to accommodate your recall customers within your existing service schedule. In addition, Aprilia USA has provided each recall customer with details of the TREAD Act Reimbursement program. This program provides a plan to reimburse a customer who has already paid for the same repair or update as described in the recall documents. A copy of the Owner Notification and the TREAD Act Reimbursement letters are attached.

Important Note: Under the National Traffic and Safety Act of 1966 as amended, if there has been a recall campaign, dealers must assure that all new vehicles and new items of replacement equipment are free of safety defects and comply with all applicable Federal Motor Vehicle Safety Standards at the time of delivery to the customer. This means that dealers may not deliver new motor vehicles or new



items of replacement equipment to consumers unless the safety defect or noncompliance has been remedied before delivery. Please check your dealerships inventory, both new and used motorcycles, to ensure that all motorcycles requiring the updates of this recall are addressed.

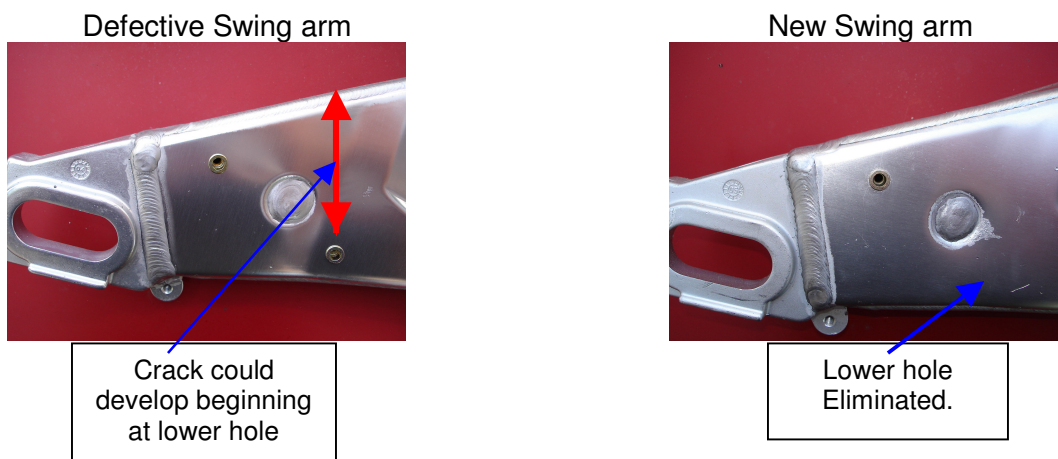
VIN Identification: Please poll the GGP warranty system on www.serviceaprilia.com to determine the RSV 1000 VINS subject to this recall.

- 1) On serviceaprilia.com select “Warranties”- on left side of home page, then “GGP” at top of column-center of page.
- 2) Once the GGP portal opens, select “Tech. Update- Campaign”, then “Enter recall coupons menu”.
- 3) Enter the VIN number under “Frame” and tab down using the TAB key on your keyboard
- 4) Under “Element”- view any recalls that apply.
- 5) If you observe the heading “Swinging Arm Tech. Updating RSV USA”, this particular VIN is subject to the recall.

Depress the back button  to back out of the claim. (Note: Recall identification and recall claim entry are performed under the same function, so unless you have completed the recall do not continue to fill in the blocks to submit the claim. Submit the claim only when the recall work has been completed)

IMPORTANT NOTE: If you observe a pop-up message stating “Vehicle does not belong to Recall Campaign”, and you are sure the VIN applies, please contact your technical support representative. In addition, a message stating “Vehicle is not blocked” means all applicable recalls have been performed and claimed. In addition, past recall claims on a vehicle can be viewed under “Warranty”, then “View Vehicle Data”, then “Maintenance Jobs” in the pop-up.

Parts Identification:



Part to order: Order Recall swing arm kit **AP8145030** through the BM ordering system (Kit includes pre-installed bearings & seals, new chain guard bracket and new chain rivet link) This kit is currently available. If this kit becomes unavailable in the future, the normal spare parts swing arm AP8145020 can be used. The necessary seals, bearings, brackets, nut inserts, etc., would have to be ordered separately, as this swing arm comes blank.



Warranty claiming:

(Swing Arm Recall RSV 1000 USA)

- 1) Log on to serviceaprilia.com using your user name and password. Select "Warranties"- on left side of home page, then "GGP" top of column- center of page.
- 2) Once the GGP portal opens, select "Tech. Update- Campaign", then " Enter recall coupons menu".
- 3) Enter the VIN number under "Frame" and tab down using the TAB key on your keyboard
- 4) Under "Element"- select "**Swinging Arm Tech. Updating RSV USA**"
- 5) Under "Coupon Type" select, "Extraordinary".
- 6) Under "Coupon Number" click the Question mark and a pop-up box will appear. Click on the number of the coupon that applies to the procedure that was performed (1, 2, etc) in the coupon box.
- 7) In the "Km / Mls" box, enter the mileage of the bike.
- 8) In "Document No." enter your in-house repair order number.
- 9) In "Document type" select "invoice".
- 10) Under the "Date Carried Out", enter the date in European format (dd/mm/yyyy)

When you are finished, submit the claim by clicking on the "Diskette Icon"  in the upper left hand corner of the screen. Reimbursement: **1.7 hours labor plus cost of swing arm kit AP8145030**

Repair instructions: Please see pages 7-17 for repair procedures.



TREAD ACT CUSTOMER REIMBURSEMENT PLAN

Customer Reimbursement for Safety Related Recall Repairs
Effective with Safety related recalls initiated as of January 15, 2003

Aprilia USA is initiating a safety related recall for 2004-2005 Aprilia RSV 1000 motorcycles in a range of VINs that includes your vehicle. If you have previously paid to have the repair or update, as described in the recall documentation, completed you are entitled to be reimbursed for that expense.

You are encouraged to request reimbursement from your authorized Aprilia USA dealer. Alternatively, you may submit the request for reimbursement to the following address:

Aprilia Customer Care
140, East 45th Street
New York, NY 10017

In every case:

- Repair expenses pertaining to the subject of the safety recall are reimbursable, not consequential expenses such as towing, rental, accommodations, damage repairs, etc.
- Expenses from repair facilities outside of the Aprilia authorized dealer network will be considered; however, the procedure must meet Aprilia standards and use Aprilia original equipment parts.
- When Aprilia original equipment parts are used, the Manufacturers Suggested Retail Price (MSRP) will be considered as the guideline for reasonable charges.
- Expenses for repairs performed more than 10 days after the date of the last customer notification letter sent by Aprilia are not eligible for reimbursement.
- Taxes and hazardous waste disposal, where previously paid, are eligible for reimbursement.
- Aprilia USA will not reimburse for prior repairs that did not use Aprilia original equipment parts.

The Aprilia authorized dealer will request a copy of the customer notification letter, as well as, a copy of the owner's previously paid invoice, and then inspect the vehicle (if still in the possession of the invoice holder) to determine the scope and quality of the previous repair. Claims will be processed within 60 days of receipt.



CUSTOMER NOTIFICATION LETTER

August 27, 2008

Dear Aprilia Owner:

RE: IMPORTANT SAFETY RECALL INFORMATION REGARDING YOUR APRILIA RSV 1000 MOTORCYCLE

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act. This notification is a re-issue of recall 05V-538, originally issued in 2006.

REASON FOR THIS RECALL

Aprilia USA has decided that a defect which relates to motor vehicle safety exists in the Aprilia motorcycle model and model years note below:

- 2004 – 2005 Aprilia RSV 1000

The rear swing arm on the above model within the noted model years may develop a stress fracture with use, over time. A fracture in the swing arm could cause a change in the handling characteristics of the motorcycle, which under certain circumstances could result in a crash, personal injury or death.

Aprilia USA has identified the VIN range of the RSV 1000 model where the replacement of the rear swing arm is required. According to vehicle registration records, you are the owner of an Aprilia motorcycle that falls within this VIN range.

WHAT WE WILL DO

To address this situation, Aprilia USA will conduct a voluntary recall of all 2004 – 2005 Aprilia RSV 1000 motorcycles within the affected VIN range, that have not already been repaired as part of the original issuing of this recall. Aprilia USA, through the authorized Aprilia dealer network will replace the rear swing arm on these motorcycles, eliminating any potential for a safety risk as a result of a fracture developing in this component.

The work required of this recall may be completed by any authorized Aprilia Motorcycle dealer at no charge to you for the required parts or labor. The repair will take approximately 4.0 hours.

WHAT YOU SHOULD DO

With the receipt of this letter, please contact your authorized Aprilia Motorcycle dealer to arrange for an appointment to have the described vehicle updates completed. Instructions for replacing the rear swing arm have been sent to your dealer and the parts are available. Your dealer is best equipped to obtain parts and provide service to ensure that your vehicle is corrected as promptly as possible.

If, however, you take your vehicle to your dealer on the agreed service date, and they do not remedy this condition on that date or within three (3) days, we recommend you contact Aprilia Customer Care by calling (212) 380 4400, option #4.

After contacting your dealer and the above number, if you are still not able to have the safety defect remedied without charge and within a reasonable time, you may wish to write the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Ave, SE, Washington, DC 20590 or call the toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY: 1-800-424-9153); or go to <http://www.safercar.gov>.



In the event that you have sold this vehicle or the vehicle is no longer in your possession, please complete and return the enclosed postage prepaid reply card to notify us of any change of ownership card.

If you previously had the work required of this recall completed at your own expense, please refer to the attached letter describing the criteria and procedure to request reimbursement.

We are sorry to cause this inconvenience; however, we have taken this action in the interest of your safety and continued satisfaction with our products. Thank you for your prompt attention to this important matter.

Very truly yours,

Aprilia USA.

Repair Procedure:

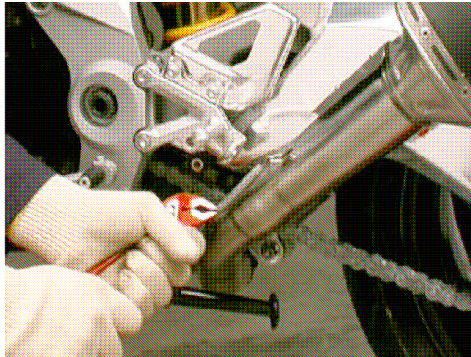
1 - REMOVING THE FAIRINGS

- Remove the fairing side retaining screws.
- Release the clips securing the fairing to the headlight fairing, using a screwdriver.
- Remove the clips from their housing using suitable pliers.
- Slide out the fairing from the side, do not damage it.



2 - REMOVING THE EXHAUST SYSTEM

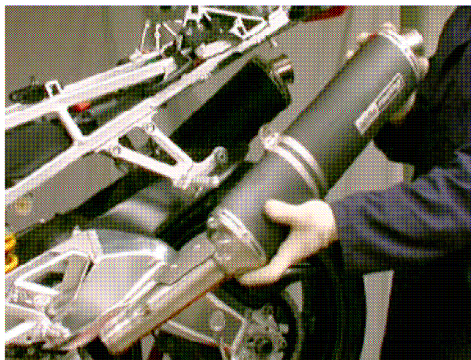
- Release the silencers springs, using a suitable spring puller.



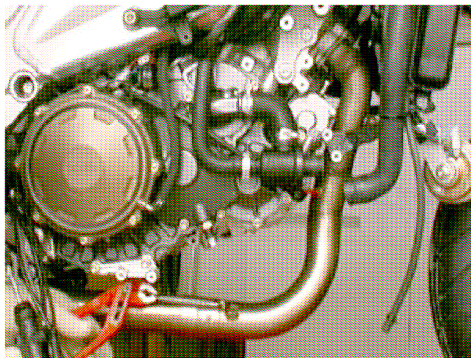
- Loosen the silencer clamp retaining screw.



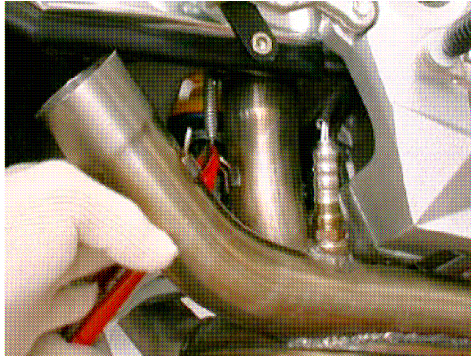
- Remove the silencers.



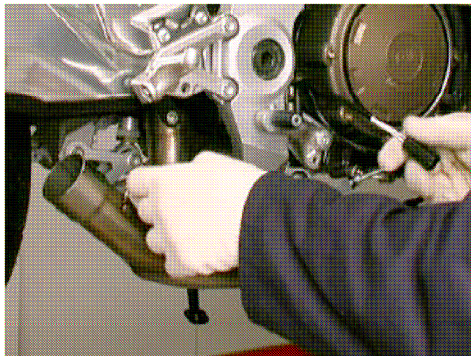
- Release the spring securing the front cylinder manifold to exhaust, using a suitable spring puller.



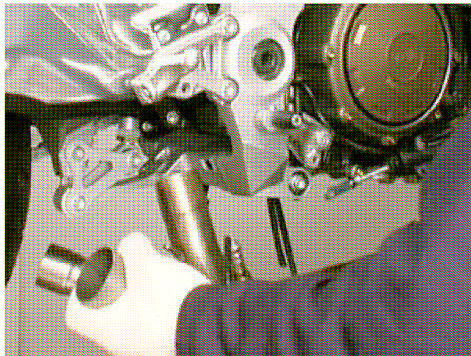
- Release the spring securing the rear manifold to exhaust, using a suitable spring puller.



- Slide out the oxygen sensor wiring from the frame.



- Remove the exhaust system together with the oxygen sensor.



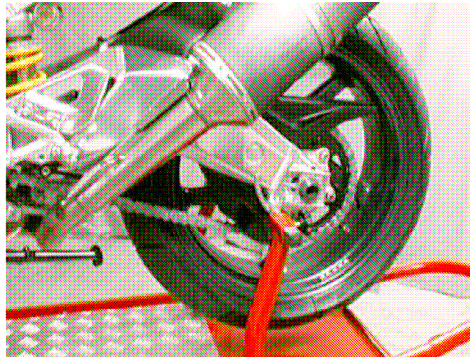
- Loosen the four nuts securing the manifold to the rear cylinder.

NOTE FOR REASSEMBLY
Lower nuts tightening torque 12 Nm



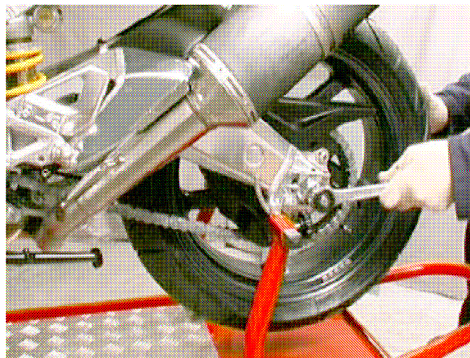
3 - REMOVING THE REAR WHEEL

- Position the vehicle on the suitable rear paddock stand.



- Loosen and remove the wheel shaft nut.

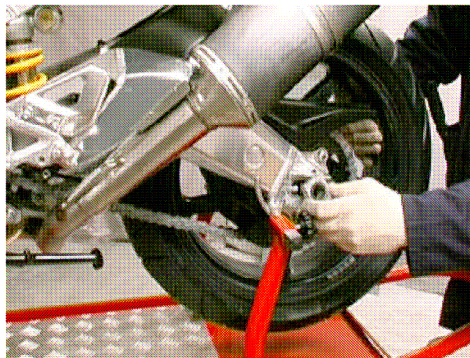
NOTE FOR REASSEMBLY
Chain slack: 25 mm
Tightening torque: 120 Nm



- Collect the washer.

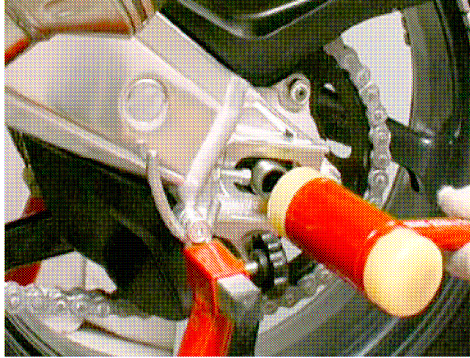


- Collect the left chain slider.

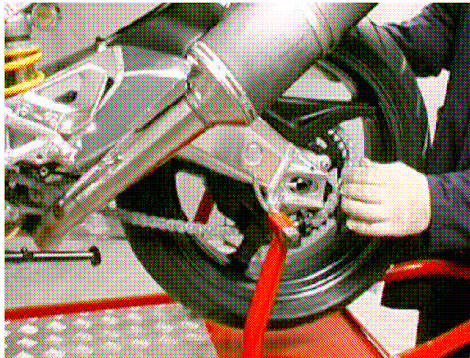




- Lightly tap on the wheel shaft to remove the head from its housing.



- Move the wheel forward and take the chain off the rear sprocket.



- Slide out the wheel shaft together with the right chain slider.



- Remove the complete wheel after moving the brake calliper away from the disc.



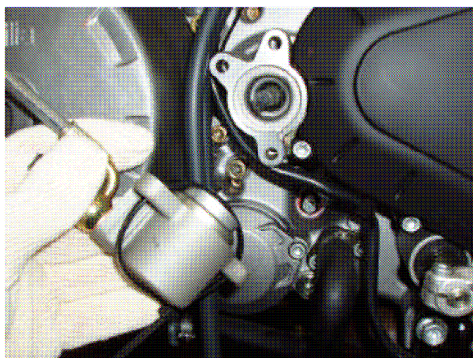
4 – REMOVING THE FRONT SPROCKET

- Remove the clutch slave cylinder.
- Secure with a tie the cylinder piston to its seat to prevent it from popping out.

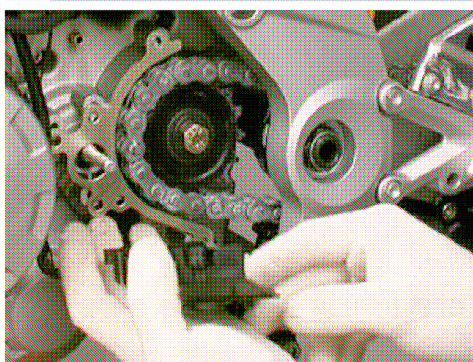


Warning

Do not pull the clutch lever when the clutch slave cylinder is removed or the piston might pop off its seat and cause fluid leakage.



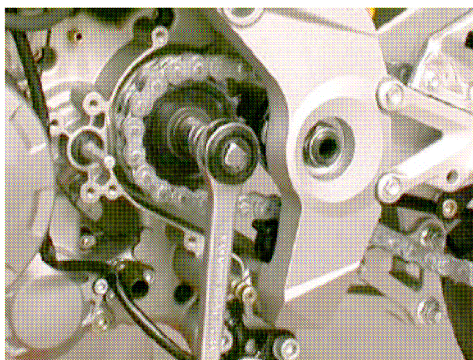
- Remove the sprocket guard and the guide plate from crankcase.



- Loosen the front sprocket bolt and collect the washers.

NOTE FOR REASSEMBLY

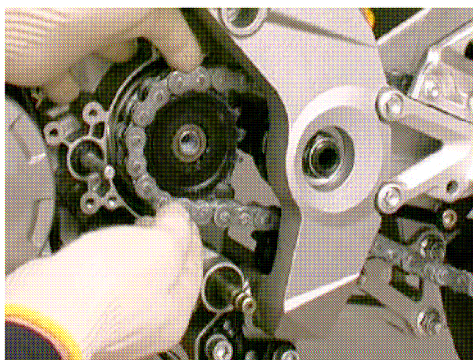
Smear some LOCTITE 243 on the thread.
Tightening torque: 50 Nm



- Remove the front sprocket.

NOTE FOR REASSEMBLY

Smear some LOCTITE Anti-Seize on the front sprocket inner teeth.

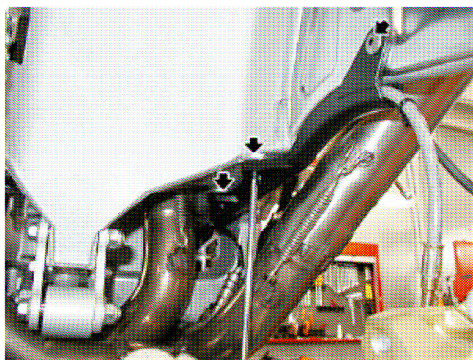


5 – REMOVING THE SWINGING ARM

- Remove the exhaust system.
- Loosen and remove the three screws from rear brake line protection and collect the washers.

NOTE FOR REASSEMBLY

Tightening torque: 3 Nm

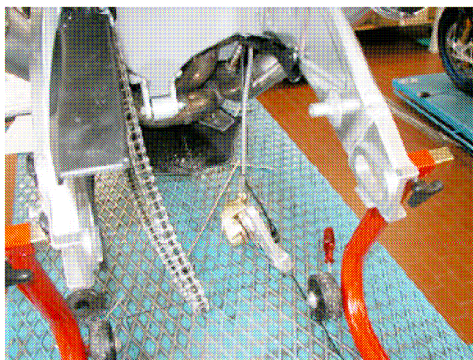


- Take off the support plate from the side and carefully set it on the ground with brake calliper and speed sensor respectively connected to line and cable.

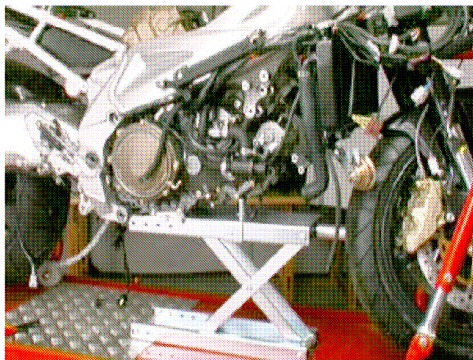


Warning

Do not work the rear brake lever when the calliper is removed or the calliper piston might pop off its seat and cause fluid leakage.



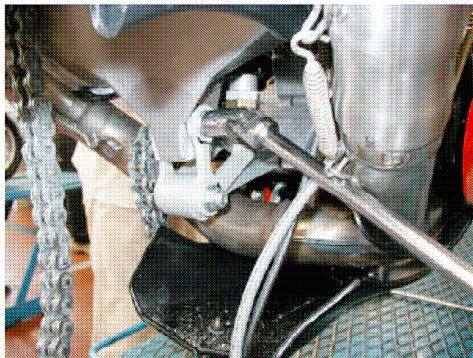
- Support the vehicle using a suitable mobile platform, the centre stand or a hoist.



- Working on the right side, loosen and remove the split con-rod/swinging arm nut.
- Remove the screw from the other side.

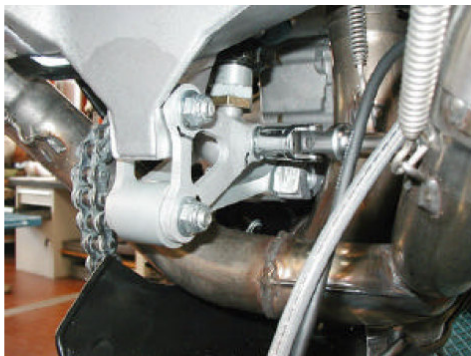
NOTE FOR REASSEMBLY

Tightening torque: 50 Nm



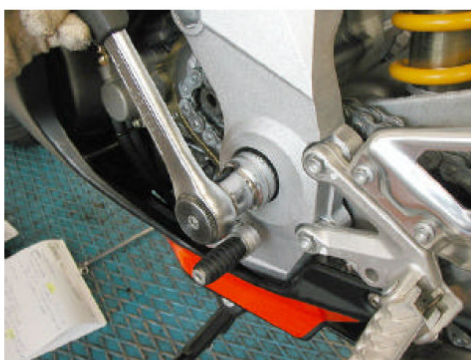
- Working on the right side, loosen and remove the shock absorber lower nut.
- Remove the screw from the other side.

NOTE FOR REASSEMBLY
Tightening torque: 50 Nm



- Loosen and remove the swinging arm shaft nut and collect the washer.

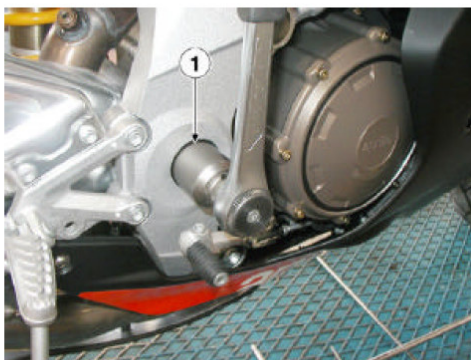
NOTE FOR REASSEMBLY
Tightening torque: 90 Nm



NOTE Take the suitable special tool at hand (**OPT**):

- aprilia part# 8140191 (tool for tightening the swinging arm shaft and engine support).
- Using the suitable box wrench, loosen and remove the ring nut (1) from the vehicle right side.

NOTE FOR REASSEMBLY
Tightening torque: 60 Nm

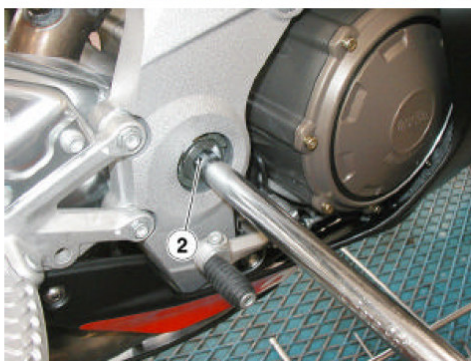


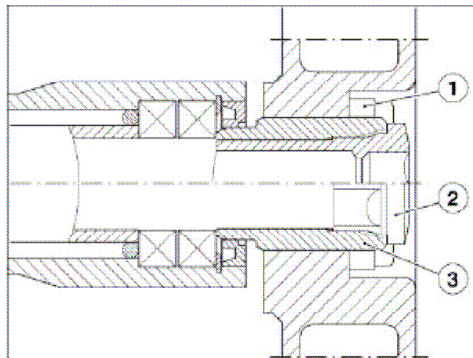
- Turn the swinging arm shaft (2) counter clockwise to loosen the adjuster bush (3).



Warning
The removal procedure shall be performed with utmost care.
Support the swinging arm at the front to ensure it will not fall.
Set a wooden support under the swinging arm front end to keep it in place.

NOTE FOR REASSEMBLY
Tightening torque: 12 Nm





- Set a support under swinging arm front end.
- Support the swinging arm at the front.
- Slide out the swinging arm shaft (2) from the right side.

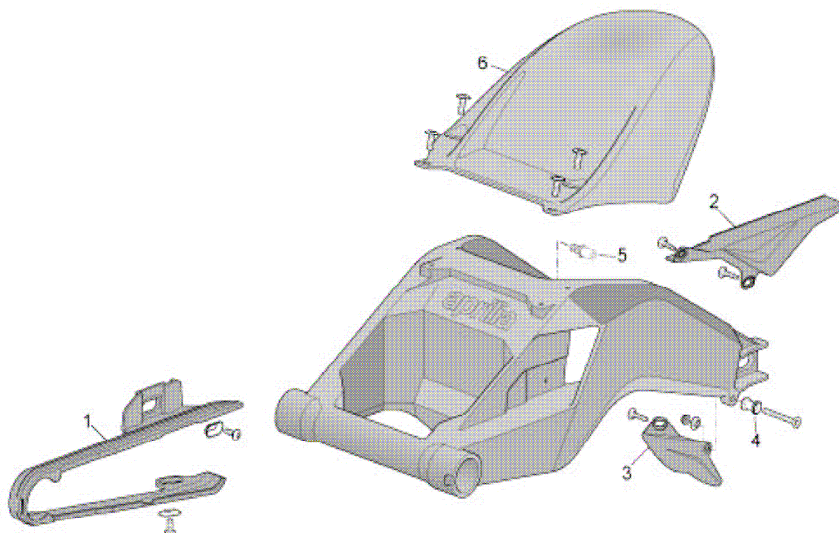
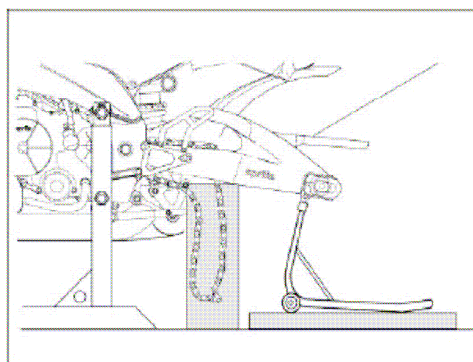
NOTE FOR REASSEMBLY
Grease the swinging arm shaft



WARNING
When removing the swinging arm, ensure that the chain does not jam.

- Support the swinging arm front end and get ready to support it in the following movement.
- Using the rear stand, slide out the swinging arm from the rear until clear of the vehicle.
- Remove the adjuster bush (3) from the swinging arm shaft (2).
- Remove the following parts from the swinging arm:

Chain frame (1),
chain guard (2),
chain guide (3),
stand bushes (4) on either side,
brake plate pin (5),
mudguard (6).





Chain Removal and Refitting information:

The RSV 1000 models are fitted with an endless chain with a riveted master link. Chains manufactured by Regina are the most common chain installed by the factory. Although there are many aftermarket chain removal and refitting devices, the use of genuine Regina chain tools is recommended for the Regina chains. If another type chain is installed on the vehicle, please use the recommended tools for that particular type of chain. Be sure to follow the removal/installation instructions recommended by each chain manufacturer.

Three tools recommended for Regina Chains:
(Also see reginausa.com --under use and maintenance)

Regina #805330- Chain breaker -photo not available

Regina #805187- Connecting link installer-presses plate on to pins
(aprilia #ap8104516)



Regina #805188- Chain riveting tool



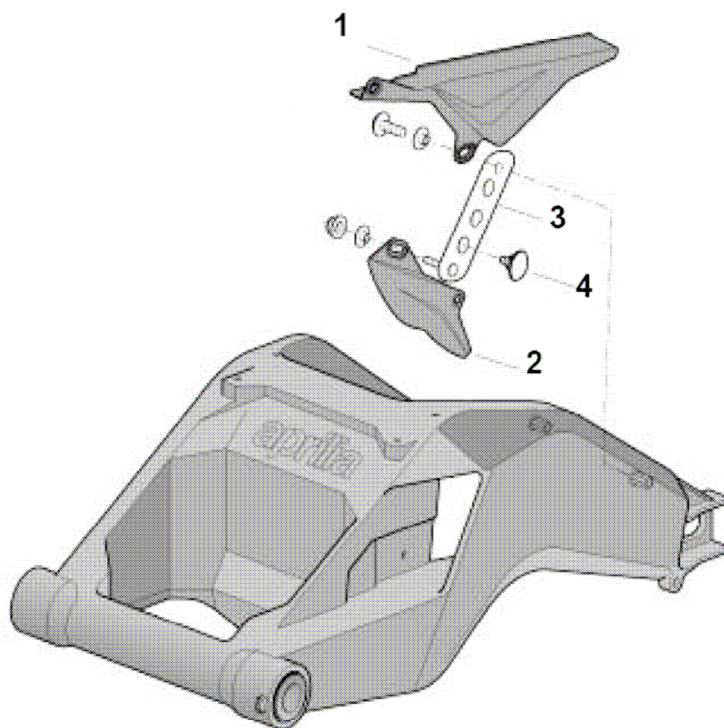


- Refit the following parts to the new swinging arm:

- chain frame,
- chain guard (1) and chain guide (2) with the new bracket (3) and its hardware; fit rubber element (4) to avoid direct contact between swinging arm and bracket,
- stand bushes,
- brake plate pin **smearing LOCTITE 243 on its thread**,
- mudguard.

Tightening torques:

Chain frame screw tightening torque:	3 Nm
Chain guard screw tightening torque:	4 Nm
Chain guide screw tightening torque:	4 Nm
Chain guide nut tightening torque:	4 Nm
Stand bushes tightening torque:	10 Nm
Brake plate pin tightening torque:	50 Nm
Mudguard screws tightening torque	4 Nm (3 Nm for carbon versions)



- Refit all removed parts, follow the removal procedure in the reverse order.