

Swingarm Pivot Maintenance on Scott Genius MC

Important:

Please follow exactly this instruction and use only the indicated and recommended tools in order to avoid damage and improper function.

It is not possible to disassemble and assemble the swingarm unit without Scott Tool Genius which can be ordered at Scott with parts number 15.1.852.401.0.000.

The complete set of all bearings and small parts for the swingarm pivots of Genius MC can be ordered at Scott with 15.1.860.401.0.000.

You never should use a metal hammer or big forces to loosen parts.

To remove the bearings easier from its press fits we recommend to use a Teflon spray or WD 40 some minutes before you start removing the bearings.

In case you can't open the alloy screws easily please take a hot air fan and heat it carefully to loosen the Loctite blue. Be careful to avoid overheating of the paint!

The tool set of Scott Genius Tool will be delivered in a small plastic box which might help you to separate the different small parts of the 4 linkage points as some of them look very similar to another one.

We recommend to put the parts of linkage point A in compartment A after disassembly and to do the same for the points B, C and D.



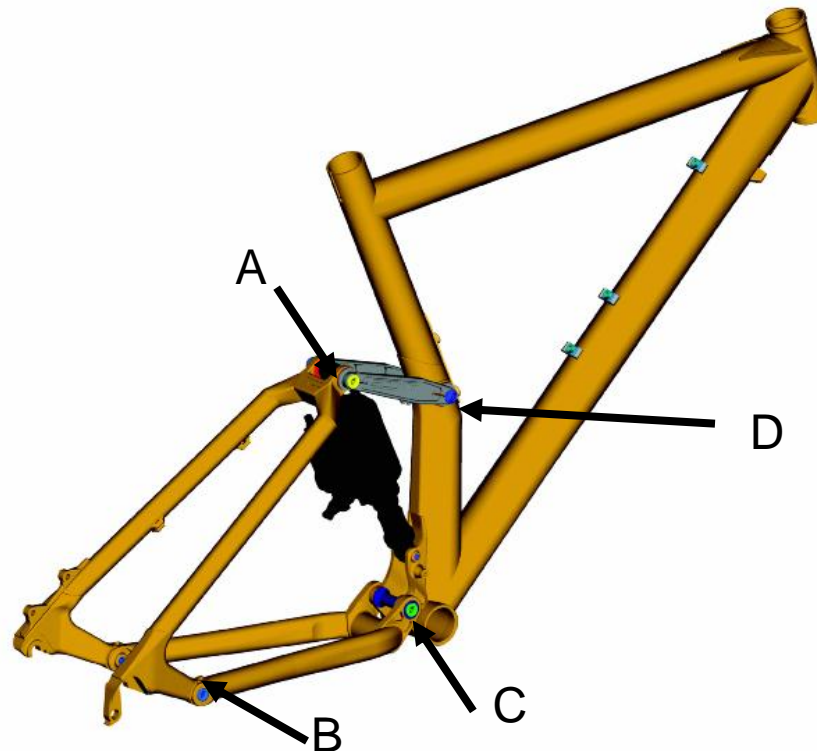
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General:

Remove all parts on the swingarm as brakes, rear derailleur, chain and rear wheel. Also remove the crankset from the front triangle.

Remove the rear shock by removing the shock bolts.

The pivot points of the frames are named as shown below:



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Pivot Point A:

Disassembly:

1. remove the axle screw with a 5mm allen key.
2. loosen the 2 linkage bar bolts with a 4mm allen key
3. screw tool D into the thread and tap it carefully to remove the pivot axle.
4. remove now the wedge with its alloy and plastic washers
5. to pull off the bearings use tool A2 from the outside and then from inside successively tool A1, A3, washer, M8 nut.
6. take care on the alignment of the parts to avoid damage on frame or bearing!
7. screw on the nut and tighten it to remove the bearing
8. repeat steps 1-5 for the second bearing of pivot point A

1. step



2. step



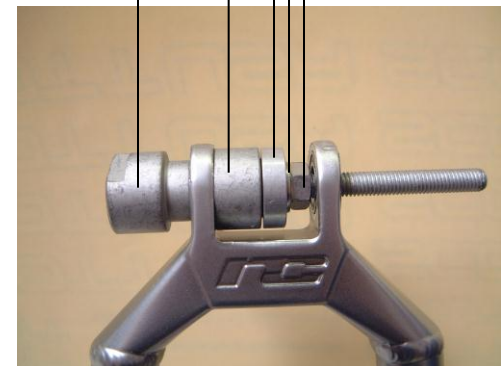
3. step



3. step



5. step



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Pivot Point A:

Assembly:

1. grease the bearings before assembly
2. put one bearing on tool A2 and one on tool A1
3. prepare the original wedge and its plastic washers and put them through the tool A2 and on the opposite successively tool A1, A4, washer, M8 nut.

Please note: both bearings must be assembled at the same time!

4. insert the bearings carefully so that they are parallel to each other, then tighten the tool
5. put the washers as shown between bearings and linkage bars
6. reinstall the pivot axle
7. reinstall the axle screw and tighten it with a tightening torque of 5Nm
8. tighten the 2 linkage bar screws with 5 Nm

3. step



5. step



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Pivot Point B:

Disassembly:

1. unscrew the 2 swingarm fixation bolts to loose sector B with a 5mm allen key
2. insert tool B1 from the inside and from the outside successively tool A1, A3, washer, M8 nut.
3. tighten the nut and take care of the alignment

1. step



2. step



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Pivot Point B:

Assembly:

1. grease the bearings before assembly
2. insert from the outside tool A2 with the bearing and from the inside successively tool C2, washer, M8 nut.
3. tighten the nut until stop and take care of the alignment!
4. repeat steps 1-3 on the other side of the swingarm
5. reinstall the alloy and plastic washers as shown on the picture below pic
6. reinstall the seatstays into the fittings of the chainstays but please take care not to destroy the plastic washers by improper installation
7. tighten the 2 swingarm fixation bolts with a torque of 6 Nm

2. step



5. step



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Pivot Point C:

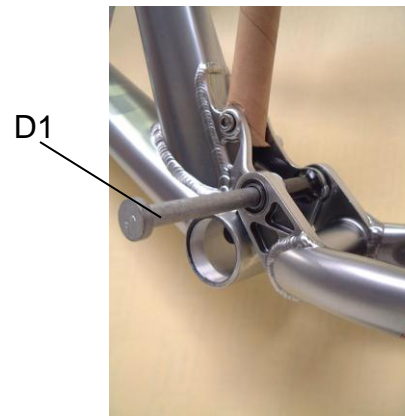
Disassembly:

1. remove the screw of the swingarm axle bolt on the left side with a 5mm allen key
2. screw tool D into the thread and tap it carefully to remove the pivot axle
3. remove the wedge and the alloy and plastic washers
4. to remove the bearings use tool C1 from the inside and from the outside successively tool A1, A3, washer, M8 nut. pic 16
5. tighten the nut and take care of alignment to avoid damage on frame or bearing

1. step

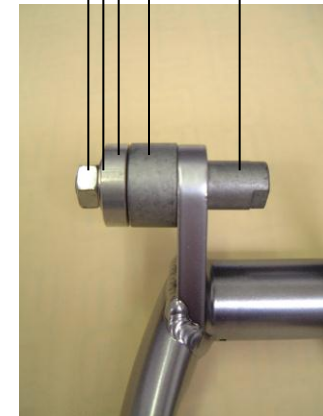


2. step



4. step

Washer
M8 Nut
A3
A1
C1

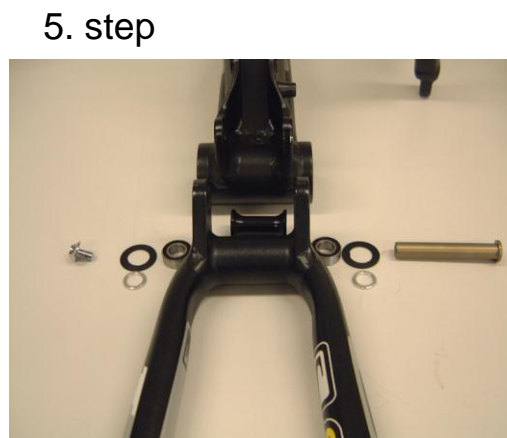
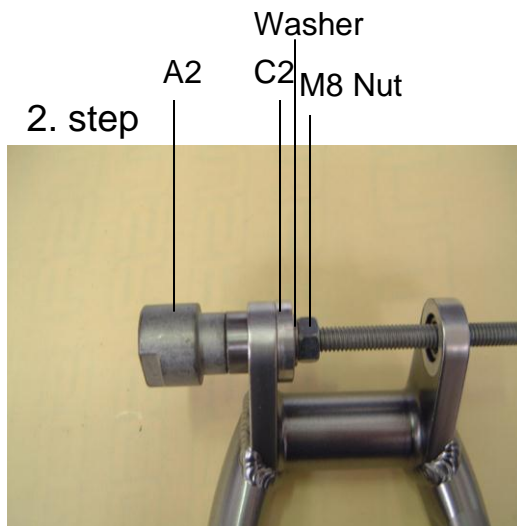


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Pivot Point C:

Assembly:

1. grease the bearings before assembly
2. insert from the outside tool A2 and from the inside successively tool C2, washer, M8 nut. Please note: the nose of C2 must fit the hole
3. tighten the nut until stop and take care of the alignment!
4. repeat steps 1-3 on the other side of the swingarm
5. reinstall the alloy and plastic washers as shown on the picture below
6. install the wedge and the alloy and plastic washers
7. reinstall the pivot axle
8. put some Loctite Medium on the screw of the swingarm axle and tighten it carefully until the sideplay of the chainstay is adjusted.
9. 6 Nm



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Pivot Point D:

Disassembly:

1. remove the screws of the pivot axle with a 5mm allen key
2. loosen the 2 screws of the linkage bars and remove them from the pivot axle
3. remove the alloy and plastic washers
4. put tool E1 on the axle (hollow side towards the frame), then tool E3, washer, M6 nut, M6 bolt and insert the bolt at least 15mm into the axle thread.
5. tighten the nut while holding the bolt so the axle and one bearing will be extruded from the frame
6. insert the axle again (without bearing) from the inside/other side of the frame and repeat step 5 to extrude the second bearing

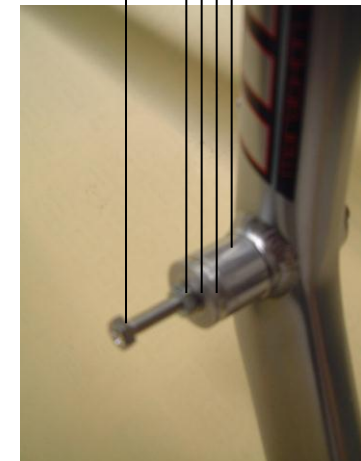
1. step



2. step



W6
M6 nut E3
M6 bolt E1
4. step

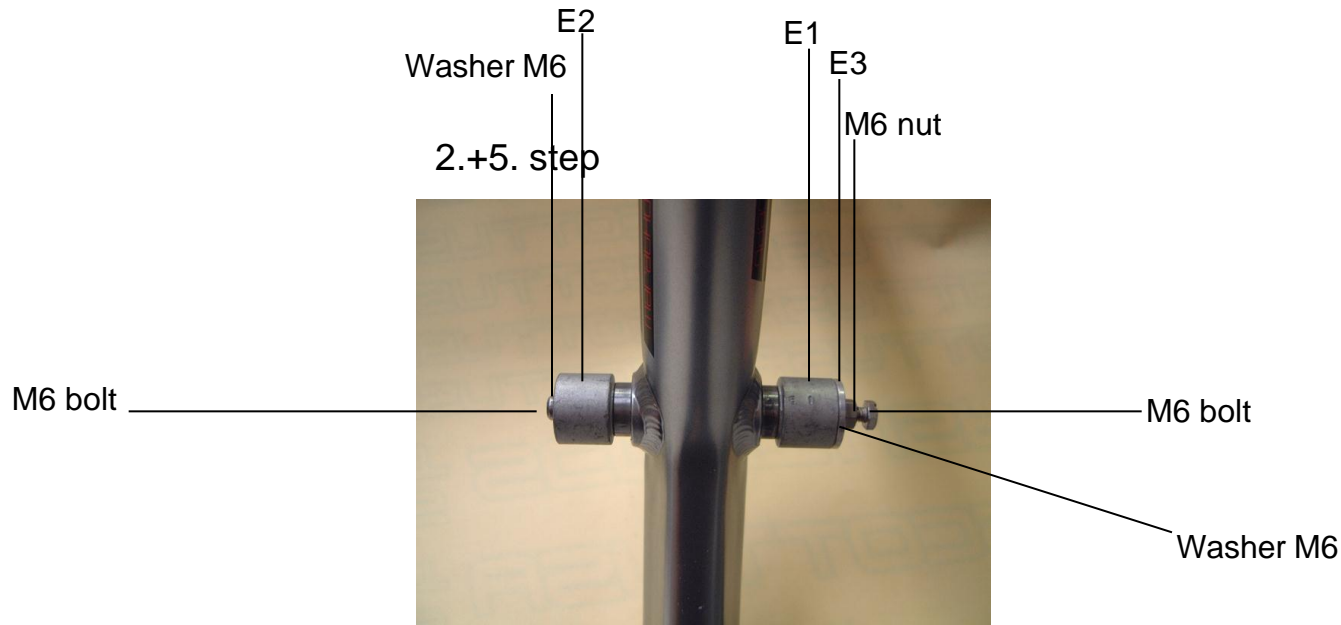


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Pivot Point D:

Disassembly:

1. grease the bearings before assembly
2. put one bearing on the pivot axle and add tool E2, fix it with a M6 bolt/washer pic 21
3. insert the axle through the frame
4. put the second bearing on the axle
5. fix tool E1, E3, washer, M6 nut with M6 bolt pic 21
6. **Important:** insert the M6 bolt into the thread at least for 15mm



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Pivot Point D:

Disassembly:

7. tighten the nut carefully (alignment!), the centering of the axle is done automatically by tool E+ and E2
8. reinstall the alloy and plastic washers
9. reinstall the linkage bars
10. tighten the pivot axle screw with a torque of 5 Nm
11. tighten the screws of the linkage bars with 5 Nm

Reinstall the shock and tighten the shock bolts with a torque of 10 Nm.

8. step

