

 **Husqvarna**



GB

Workshop manual
FS 305/309



HUSQVARNA CONSTRUCTION PRODUCTS

HUSQVARNA

FS 305/309

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Workshop Manual

The Workshop Manual includes virtually all workshop procedures that can come into question on the FS 305/309. Some very simple and self-evident repairs have been omitted.

OUTLINE

The manual describes dismantling and reassembling of various components through the different chapters.

This means that as a mechanic, at least until you have learnt the basic composition of the machine, you need to start with some earlier chapters to allow for access to the service items concerned.

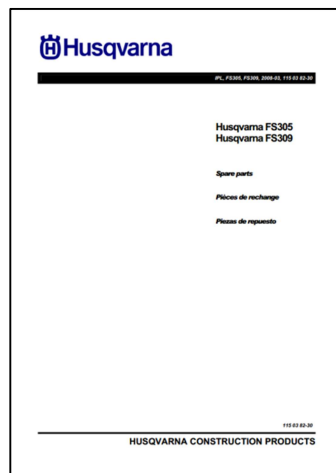
LAYOUT – PICTURES AND TEXT

The pictures are mostly enough to guide the mechanic through the various procedures. The text on the right hand column has further references and explanations for the repair work on the machine.

CONTENTS

The manual is divided into numbered chapters with chapter headings that are stated in bold at the top of each page.

The list of contents has chapter references as well as page references for relevant subtitles.



Spare parts

SPARE PARTS FS 305/309

The documents include all spare parts for: FS 305/309, part. No: **115 62 02-26**

All components are illustrated in exploded views of the entire machine, where each component's position, spare part number and appearance can be easily identified.



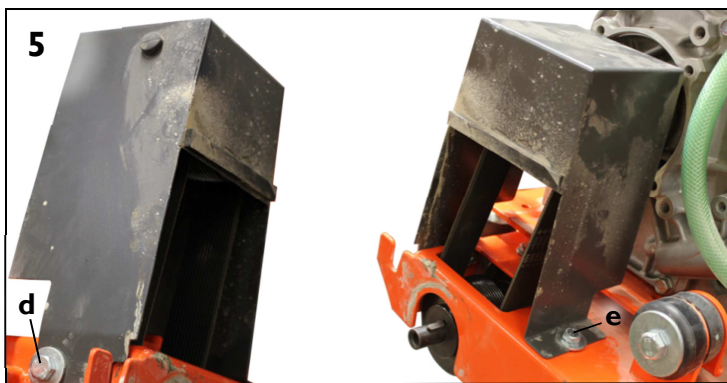
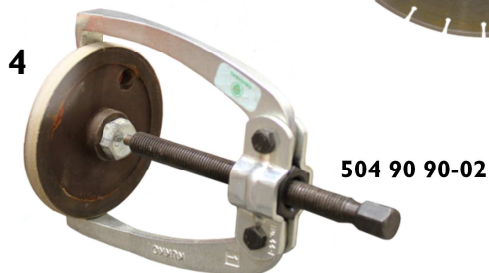
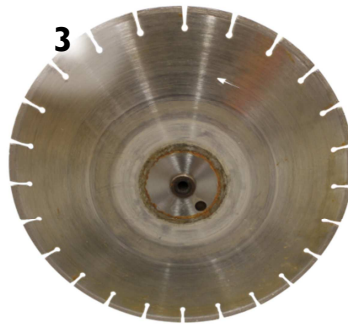
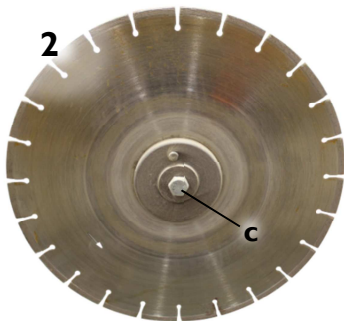
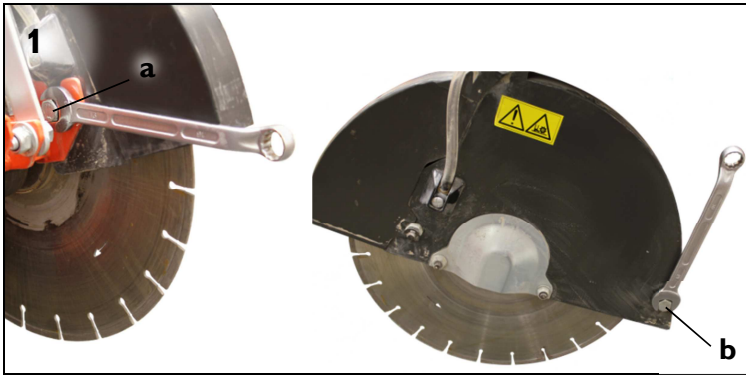
Components

1. Engine
2. Belt guard
3. Rear wheel
4. Frame
5. Front wheel
6. Carriage
7. Pointer with roller

8. Wheel handle
9. Handle
10. Handle shaft
11. Water tank
12. Blade guard
13. Blade

3

Blade/Belt



DISASSEMBLING

Preparations

- Raise the machine to its highest position

Blade guard

1. Remove the two blade guard screws (a and b)

- use a 16 mm spanner

- Lift off the blade guard

2. Remove the screw (c)

- use a 16 mm spanner

3. Remove the outer flange

- Pull off the blade

4. Reattach screw (c) and use it as a counter hold to be able to remove the inner flange

- Remove the inner flange

- use a universal puller

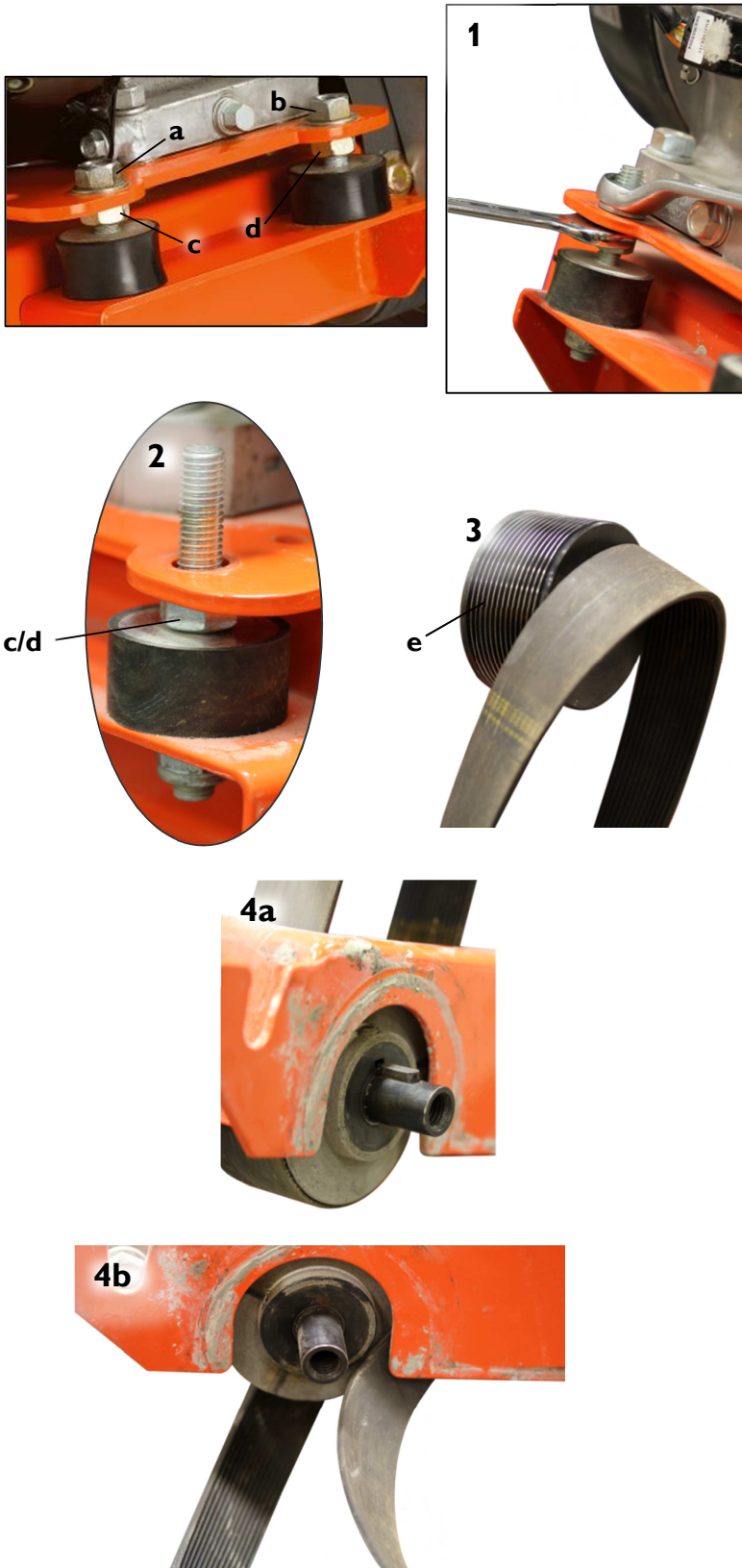
— *The universal puller can be purchased from Husqvarna Art. no. 504 90 90-02*

Belt guard

5. Remove the two belt guard screws (d-e) with washers

- use a 13 mm spanner

- Lift off the belt guard



Belt

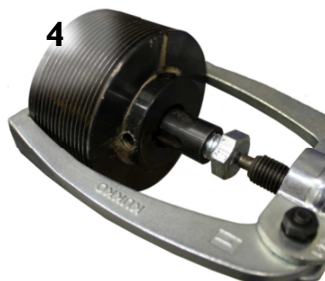
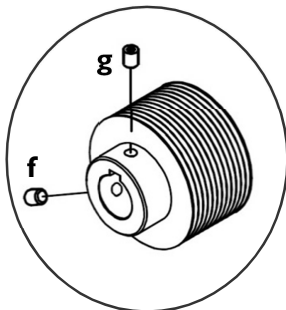
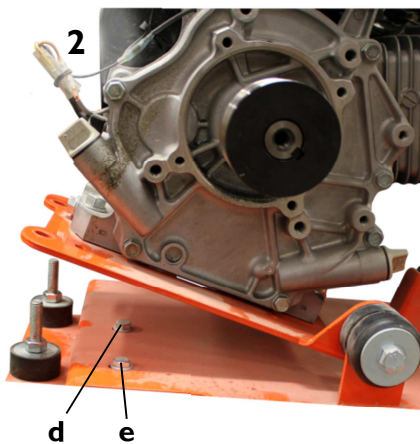
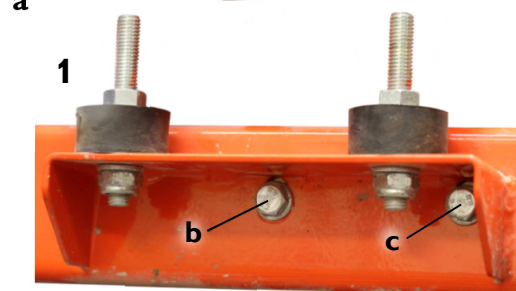
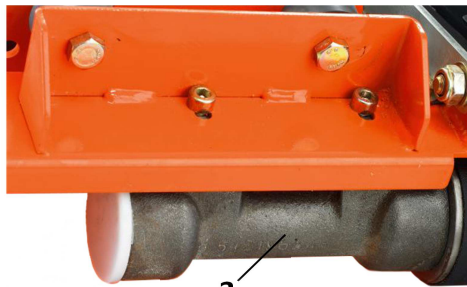
1. Remove the two nuts (a and b)
 - use two 16 mm spanners

2. Loosen the nuts (c and d) to lower the engine
 - use a 16 mm spanner

– *When the engine is lowered the belt will lose its tension and it will be possible to pull it off from the pulleys*

3. Pull off the belt from the engine pulley (e)

4. Pull out the belt from underneath the machine



Blade shaft

- Place something stable under the carriage to easier access the blade shaft (a)

1. Remove the two screws (b and c)

- use a 13 mm spanner

2. Higher the plate with the engine to be able to reach the two screws (d and e)

- Remove screws (d and e)
 - use a 13 mm spanner
- Remove the blade shaft (a)

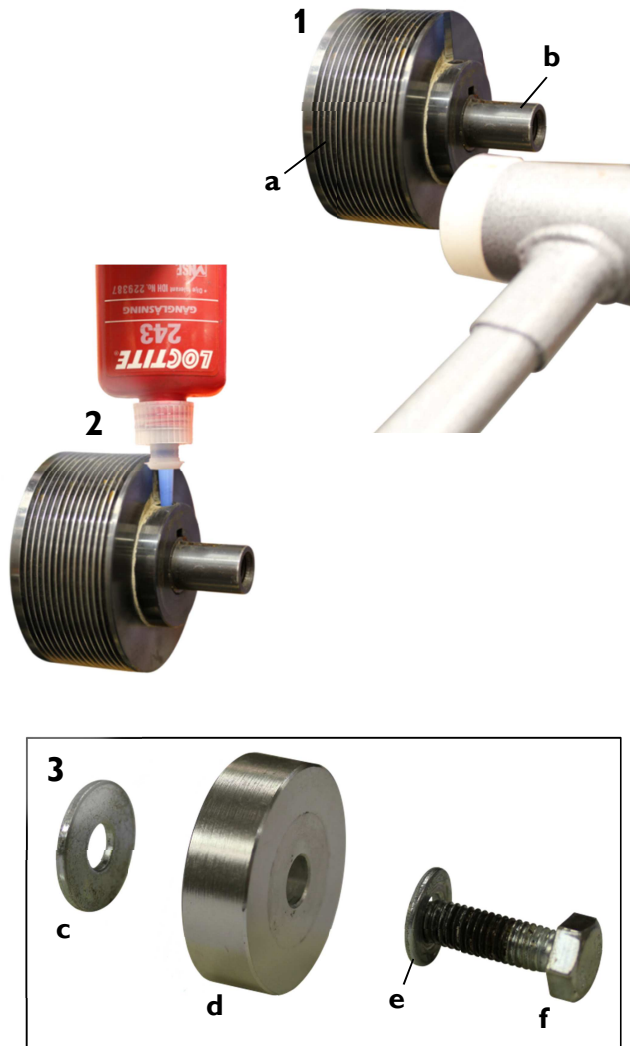
- Fasten the blade shaft (a) in a support e.g. a vice

3. The screws have thread locking. A knock to the screw head weakens the thread locking

- Remove the Allen screws (f and g)
 - use a 4 mm Allen key

4. Use a screw that fits in the blade shaft as a counter hold to be able to remove the pulley

- Remove the pulley
 - use a universal puller



REASSEMBLING

1. Knock the pulley (a) on to the blade shaft (b)

- use a rubber mallet

2. Secure the two screws with thread lock compound before attaching the screws

- Reattach the Allen screws
 - use a 4 mm Allen key

3. Put the washer (c) together with the spacer (d) and place it between the blade shaft and the frame

- Put the washer (e) on the screw (f) and through the hole in the frame
- Tighten the screw (f)

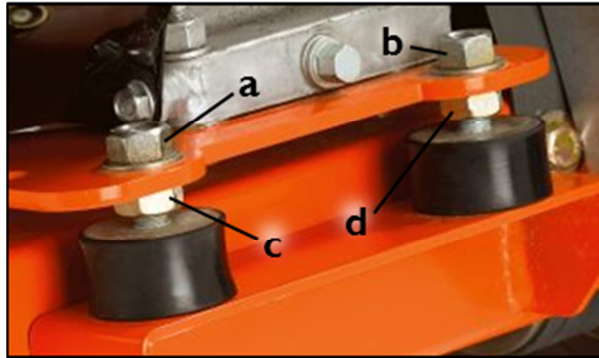
FURTHER REASSEMBLING

Simply reverse steps from the previous chapters

- Put the belt back on the pulleys and adjust the tension of the belt according to the next chapter

4

Belt adjustment



ADJUST BELT TENSION

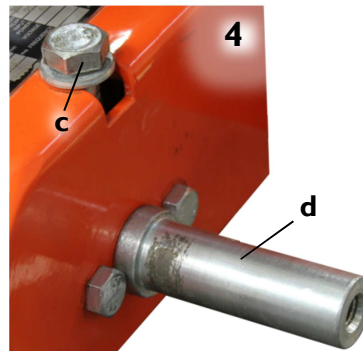
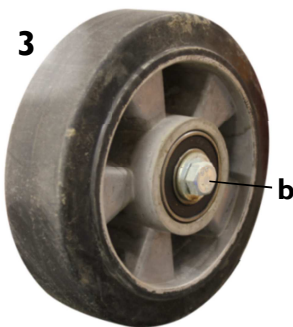
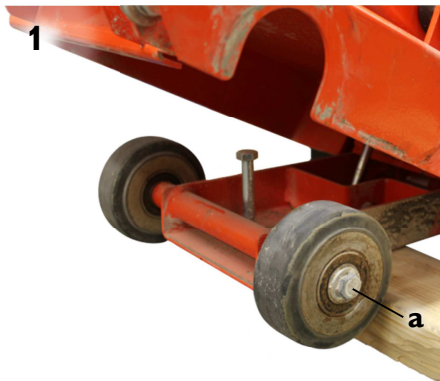
1. Loosen the two nuts (a and b)
2. Adjust the two nuts (c and d) to achieve the correct tension.

– *The nuts (c and d) are pushing the engine upwards which will increase the tension of the belt*

3. Check the tension of the belt by twisting the belt with normal strength. If it is possible to twist the belt 45° (not more or less) the belt is correctly tensioned.
4. Tighten the two nuts (a and b)

Final steps

- Attach the belt guard
- Mount the blade
- Put the blade guard back on



Front wheel

Preparations

- Raise the machine to its highest position
- Place something stable under the carriage

1. Remove screw (a) with washer

- use a 16 mm spanner

2. Reattach screw (a) and use it as a counter hold to be able to remove the front wheel

- use a universal puller

- Replace the front wheel and tighten the screw (a)

Rear wheel

Preparations

- Lift the rear and place something stable under

3. Remove screw (b) from the wheel

- use a 16 mm spanner

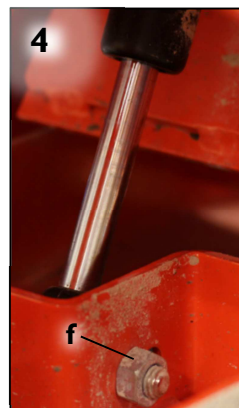
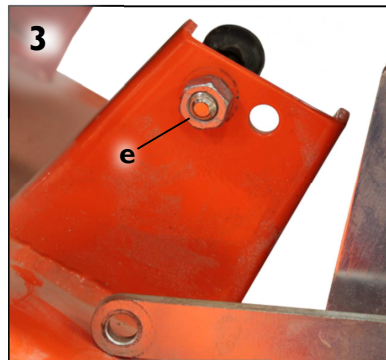
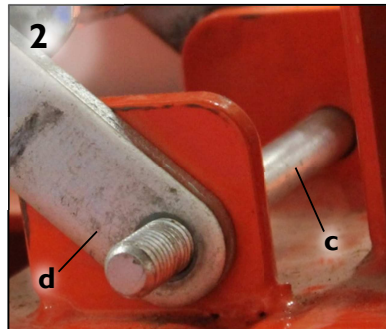
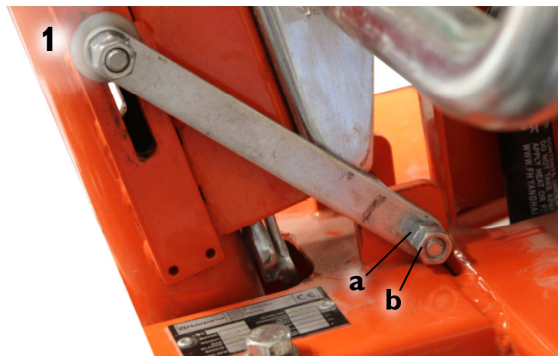
- Remove the rear wheel

4. Loosen the screw (c)

- Pull out the wheel axle (d)

REASSEMBLING REAR WHEEL

Simply reverse step 3-4



DISASSEMBLING

Preparations

- Raise the machine to its highest position
- Place something under the frame in the front of the machine to make sure that there is no weight on the carriage

– *This will release the pressure on the gas spring which makes it possible to, in a secure way, remove the gas spring*

1. Remove the two nuts (a and b) from the connecting rod (c)

– use a 13 mm spanner

2. Pull out the connecting rod (c)

– *The stub axles (d) are now loose and it is possible to tilt back the handle shaft*

3. Remove nut (e)

– use a 13 mm spanner

4. Remove nut (f)

– use a 13 mm spanner

- Remove the gas spring and replace it with a new one

REASSEMBLING

Simply reverse steps above



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