

 **Husqvarna**



GB

Workshop manual
FS400LV



HUSQVARNA CONSTRUCTION PRODUCTS

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FS400LV

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Workshop Manual

The Workshop Manual includes virtually all workshop procedures that can come into question on the FS400LV. 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.

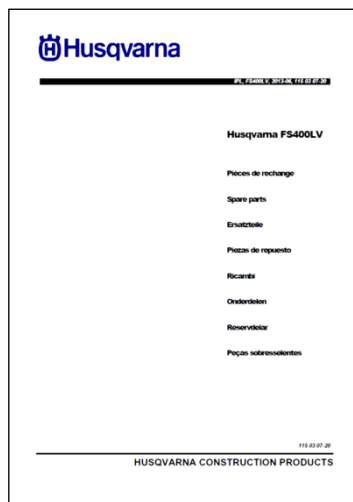
LAYOUT - PICTURES AND TEXT

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

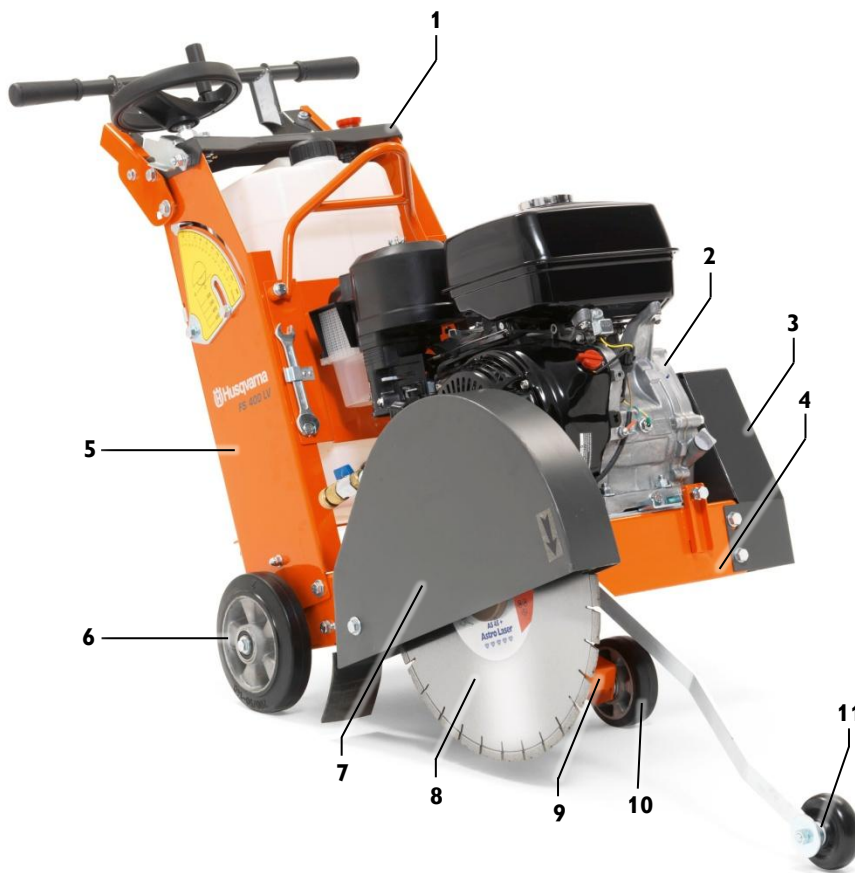
SPARE PARTS FS400LV

The documents include all spare parts for: FS400LV, part. No: **115 03 07-20**

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.

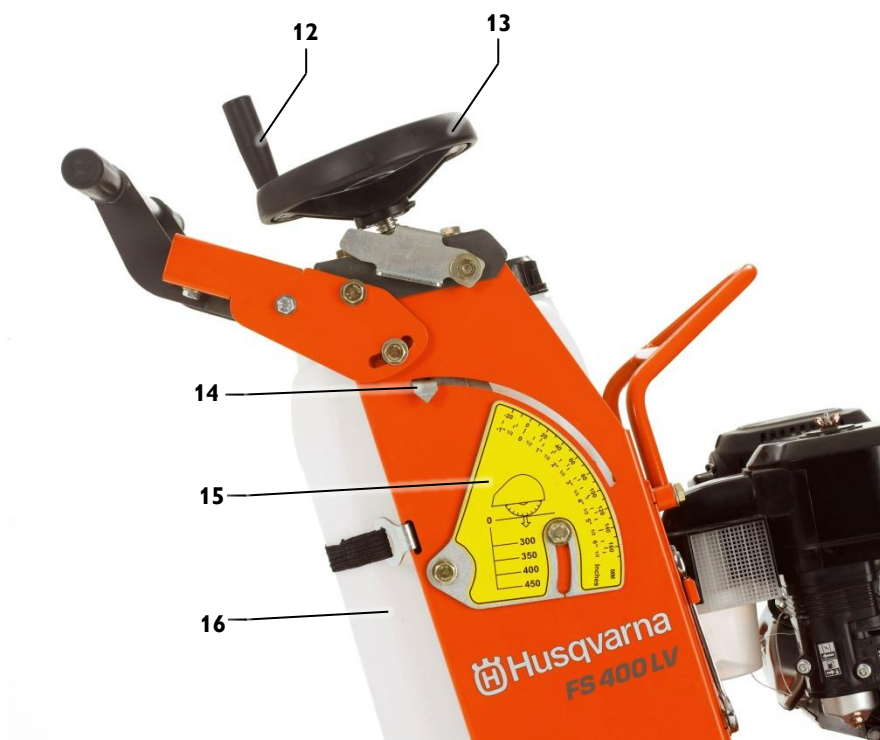
2

Components – orientation



Components

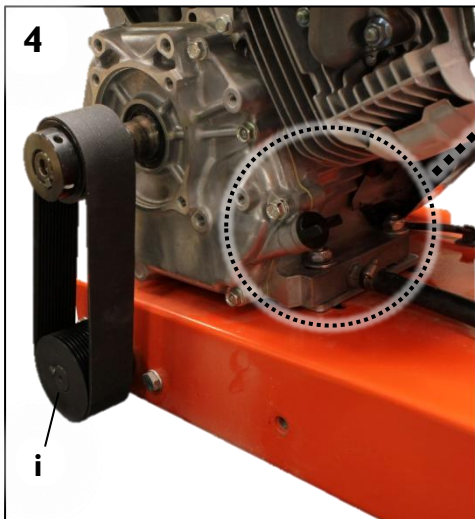
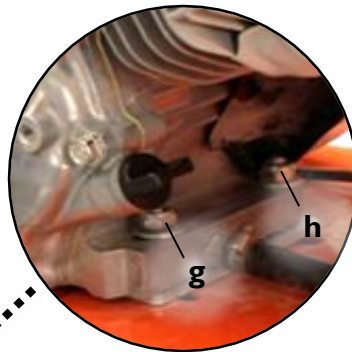
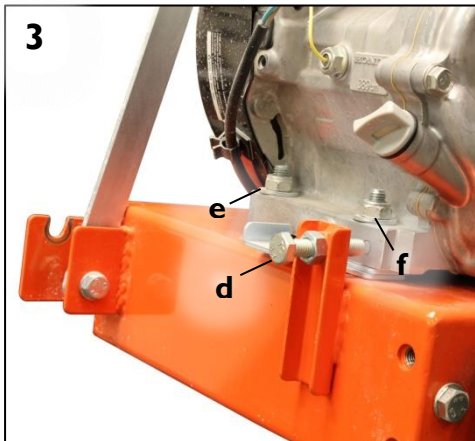
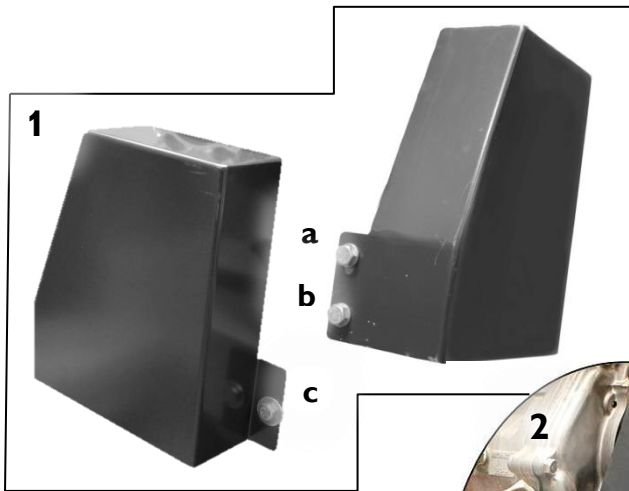
1. Console
2. Engine
3. Belt guard
4. Frame
5. Side panel
6. Rear wheel
7. Blade guard
8. Cutting blade
9. Carriage
10. Front wheel
11. Pointer with roller



12. Wheel handle
13. Lowering wheel
14. Pointer
15. Depth indicator
16. Water tank

3

Belt/Blade shaft



DISASSEMBLING

Preparations

- Raise the machine to its highest position

Belt guard

1. Remove the three belt guard screws (a-c) with washers

— use a 16 mm spanner

2. Lift off the belt guard

3. Loosen the tension screw (d)

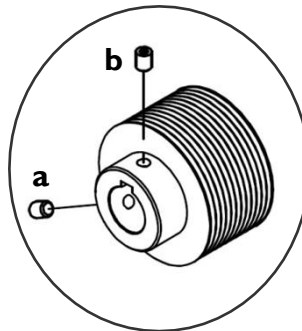
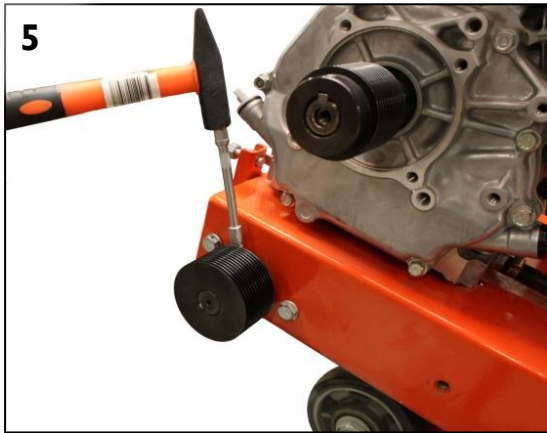
- Loosen the four nuts (e-h) holding the engine in place

— use a 18 mm spanner and a 17 mm socket key

4. Lower the machine

- Push the engine forward on the frame to loosen the belt from the pulleys
- Pull off the belt

— *Roll the blade shaft pulley (i) while pulling off the belt to make it easier to remove the belt*



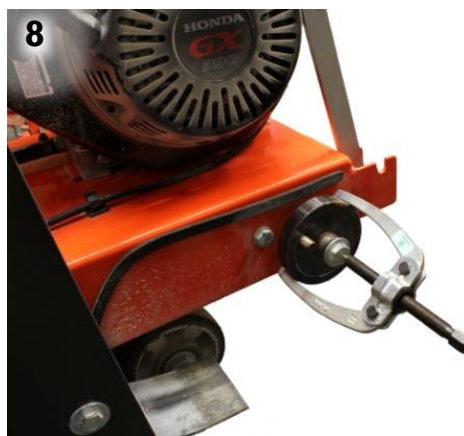
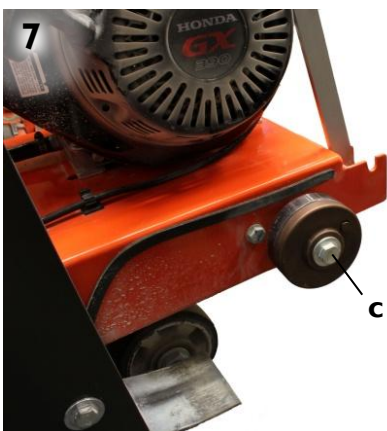
Pulleys and flanges

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

- Remove the Allen screws (a and b)

6. Remove the blade shaft pulley
— use a universal puller

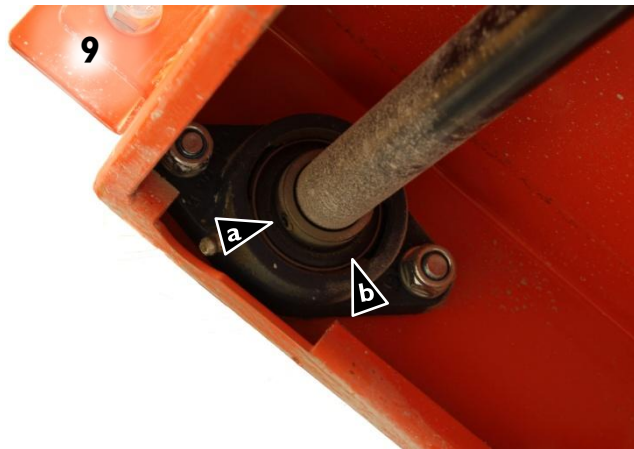
— *The universal puller can be purchased from Husqvarna Art. no. 504 90 90-02*



7. Remove screw (c) and outer flange
— use a 18 mm spanner

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

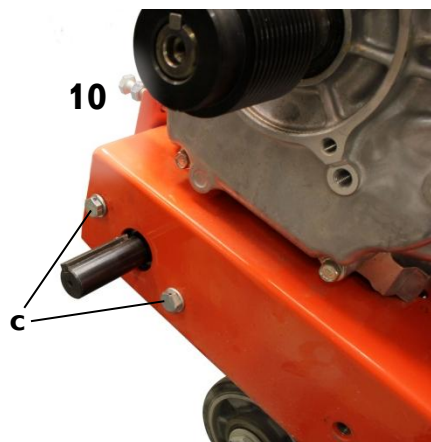
- Remove inner flange
— use a universal puller

**Blade shaft**

- *Place something stable under the carriage to easier reach the blade shaft*

9. Remove the two Allen screws (a and b) on both bearings

- use a 3 mm Allen key



10. Remove the nuts and screws (c) with washers by placing a spanner on the screw and a socket key on the nut on the inside of the frame

- use a 16 mm spanner and a 17 mm socket key

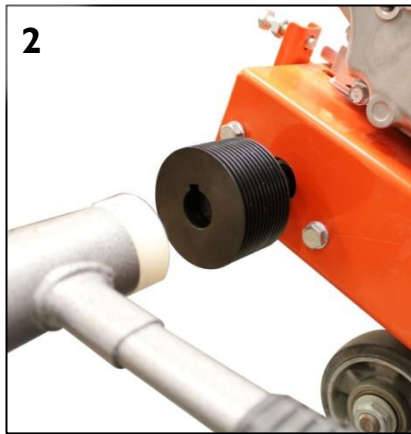
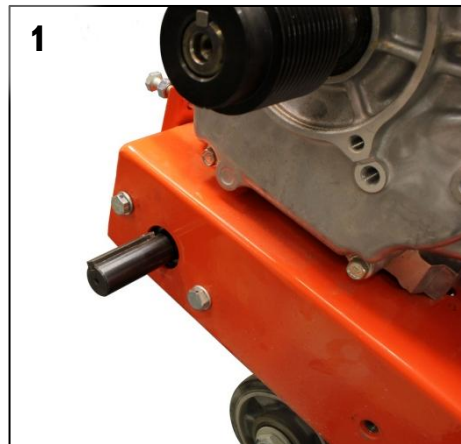
- *The bearings are now loose from the blade shaft and the shaft is not attached to the machine*



11. Push one of the bearings (d) towards the other on the blade shaft to be able to get out the blade shaft



12. Remove the blade shaft (e)



REASSEMBLING

Preparations

- Raise the machine to its highest position

1. Put the blade shaft back

- Push the bearings in place
- Tighten the two Allen screws located on the blade shaft
- Tighten the screws and nuts
- Put the flanges back on and attach the screw

2. Knock the pulley onto the blade shaft

- use a rubber mallet

3. Make sure that the pulley is in line with the blade shaft key (f)

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

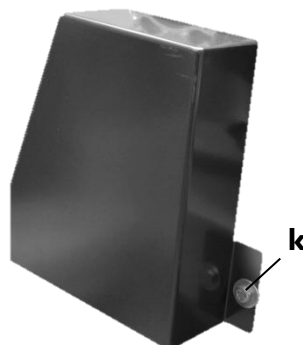
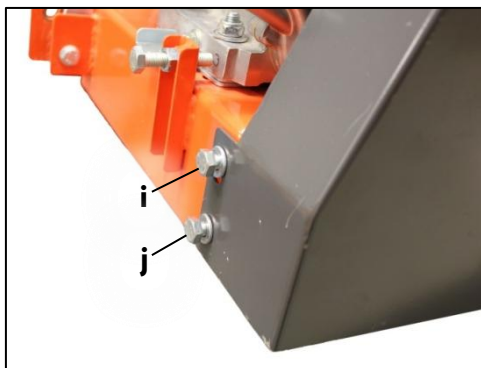
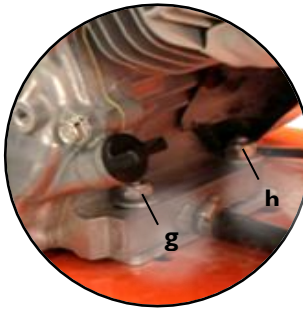
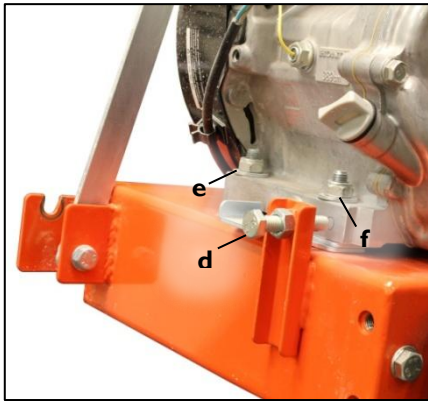
5. Reattach the Allen screws

- use a 4 mm Allen key

- 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

- Tighten the engine nuts (e-h) slightly
- Turn the tension screw (d), the engine will be pushed towards the rear

Continue by checking:

1. 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.
2. That the pulleys are parallel and aligned by placing a ruler on the pulleys

– *There should not be a gap between the ruler and the pulleys*

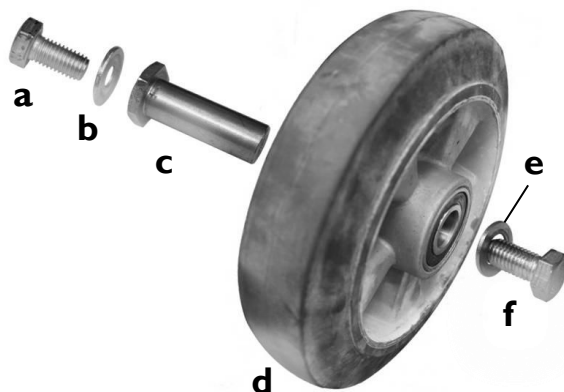
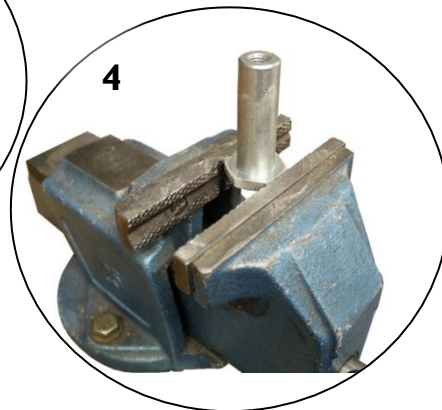
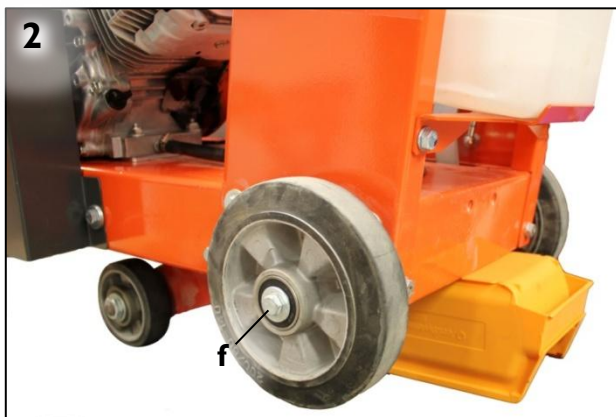
If the pulleys are not parallel/aligned or if the belt is not correct tensioned, proceed with steps below

- Adjust the position of the engine
- Adjust the tension screw

– *If the belt is correctly tensioned and the pulleys are parallel and aligned, no further adjustments are needed*

Final steps

- Tighten the engine nuts (e-h)
- Unscrew the tension screw (d) two turns and fasten the nut to prevent the screw from rubbing against the engine block
- Put the belt guard back on
- Tighten the screws (i-k)



Front wheel

Preparations

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

1. Remove the front wheel nut with washer

- use a 16 mm socket key

- Replace the front wheel and tighten the nut

Rear wheel

Preparations

- Lift the rear and place something stable under

2. Remove screw (a)

- use a 16 mm spanner and a 18 mm socket key

- Place the 16 mm spanner on screw (f) and the 18 mm socket key on screw (a) on the inside of the frame

- Pull off the wheel

3. Fasten the wheel axle (c) in a support, e.g. a vice and remove the screw (f)

- use a 16 mm spanner

4. Pull off the wheel and replace it with a new one

Rear wheel parts

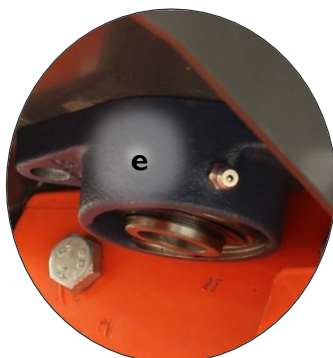
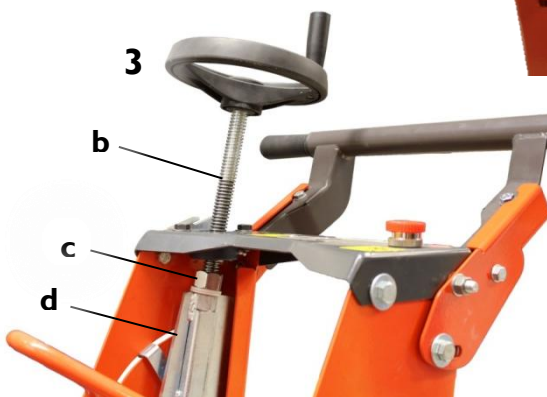
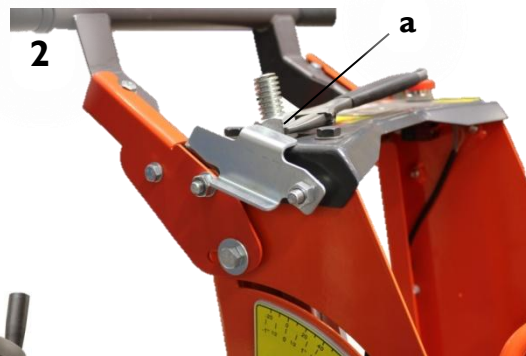
- (a) screw
- (b) washer
- (c) wheel axle
- (d) wheel
- (e) washer
- (f) screw

REASSEMBLING REAR WHEEL

Simply reverse step 2-4

6

Height adjustment



DISASSEMBLING

Preparations

- Raise the machine to its highest position

1. Remove the Allen screw located on the handle wheel

- Remove the handle wheel by spinning it counterclockwise

2. Remove the nut (a) located on the upper side by using two spanners, one on the nut on the upper side and the other on the nut (c) under the console

- use two 30 mm spanners

3. Fasten the wheel handle again after removing the nut (a)

- Spin the wheel counterclockwise to separate the height adjustment screw (b) from the nut (c) and the height adjustment (d)

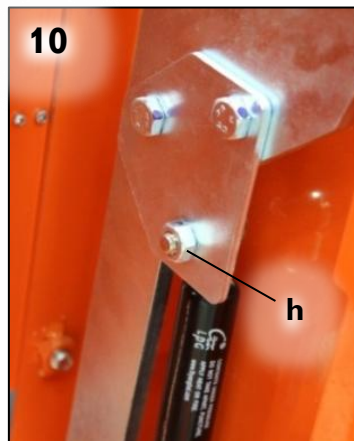
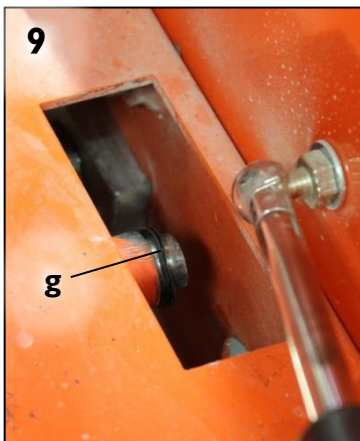
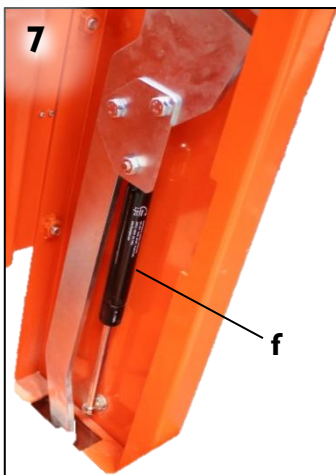
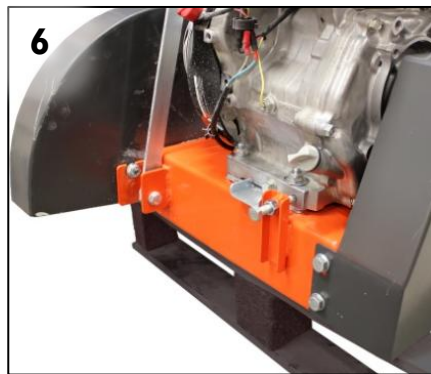
- Take care of nut and washers

4. Remove the screws by using two spanners, one on each side of the console to remove the bearing (e)

- use two 16 mm spanners

Important

- Read the service bulletin: *B1300015* before replacing the depth adjustment bearing (e)



FURTHER DISASSEMBLING

Preparations

- Remove the right rear wheel (see chapter 2) to be able to reach the screw
- Lower the machine until you can see the screw through the hole (see picture 5)

5. Remove the screw holding the height adjustment

6. Place something under the frame in the front of the machine to make sure that there is no weight on the carriage (see picture 6)

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

7. Remove the height adjustment if and only if the gas spring (f) is in its extended position (see picture 7)

8. Move the height adjustment to the right to loosen it from the frame

9. Take care of the washers (g)

10. Remove the height adjustment from the gas spring

- Remove screw (h) by using two spanners, one on each side of the height adjustment (see picture 11)

– use two 13 mm spanners

REASSEMBLING

Simply reverse steps above



Calibrate the depth indicator

The indicator must be calibrated before the machine is taken into use

Preparations

- Wind down the blade so that it barely touches the ground

1. Loosen the screw (a)

- Position the depth indicator (c) so that the pointer (b) indicates "0"

- Tighten the screw (a)



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English