

Workshop manual

BMC 335



English

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1 Introduction

1.1 Document description

This manual gives a full description of how to do maintenance and repair on the product. It also gives safety instructions that the personnel must obey.

1.2 Target group

This manual is for personnel with a general knowledge of how to do repair and do servicing. All personnel that do repair or do servicing on the product must read and understand the manual.

1.3 Revisions

Changes to the product can cause changes to the maintenance work and spare parts. Separate information is sent out for each change.

Read the manual together with all received information about changes to maintenance and spare parts for the product.

1.4 Safety



WARNING: All personnel that repair or do servicing on the product must read and understand the safety instructions in this workshop manual.

1.5 Servicing tools

The manual gives information about necessary servicing tools. Always use original tools from Husqvarna.

2 Safety

2.1 Safety definitions

Warnings, cautions and notes are used to point out specially important parts of the manual.



WARNING: Used if there is a risk of injury or death for the operator or bystanders if the instructions in the manual are not obeyed.



CAUTION: Used if there is a risk of damage to the product, other materials or the adjacent area if the instructions in the manual are not obeyed.

Note: Used to give more information that is necessary in a given situation.

2.2 General safety instructions



WARNING: Read the warning instructions that follow before you use the product.

- Read and obey this workshop manual.
- Obey the local safety regulations when you repair or do servicing of the product.
- Use safety equipment that complies with local regulations.
- Use only the equipment that the manufacturer recommends.
- Use personal protective equipment.
- Use protective gloves and safety glasses. The safety glasses must obey the for US or for EU countries.
- Use earmuffs when the product is in operation.
- Always stop the product before you repair or do servicing of the product.
- Remove flammable materials from the work area. The product can cause sparks.
- Do not use the product if the power cord or cables are damaged.
- Disconnect the product from the mains socket.
- If possible, keep the power cord disconnected when you repair or do servicing of the product.
- Use cables adapted to outdoor operation.
- Do not touch the wires when the product is on. An electrical shock can cause injury.
- Do not point compressed air to your body. Compressed air can go into the blood stream.
- Always tighten the nuts and the bolts on the product correctly.
- Do not use the power cord to lift the product. Do not pull the power cord to disconnect the product.
- Make sure that no warning labels on the product are missing or damaged. Replace any missing or damaged warning labels.
- Always read the warning labels of product supplies.
- Obey the local waste regulations.

2.3 Symbols on the product



Risk of serious injury or death to the operator or others. Be careful and use the product correctly.



Read the manual carefully and make sure that you understand the instructions before you use the product.



Always put on hearing protection, eye protection and breathing protection.



The dust can cause health problems. Use an approved respiratory protection. Always make sure that there is good airflow.



This product is in compliance with applicable EC directives.

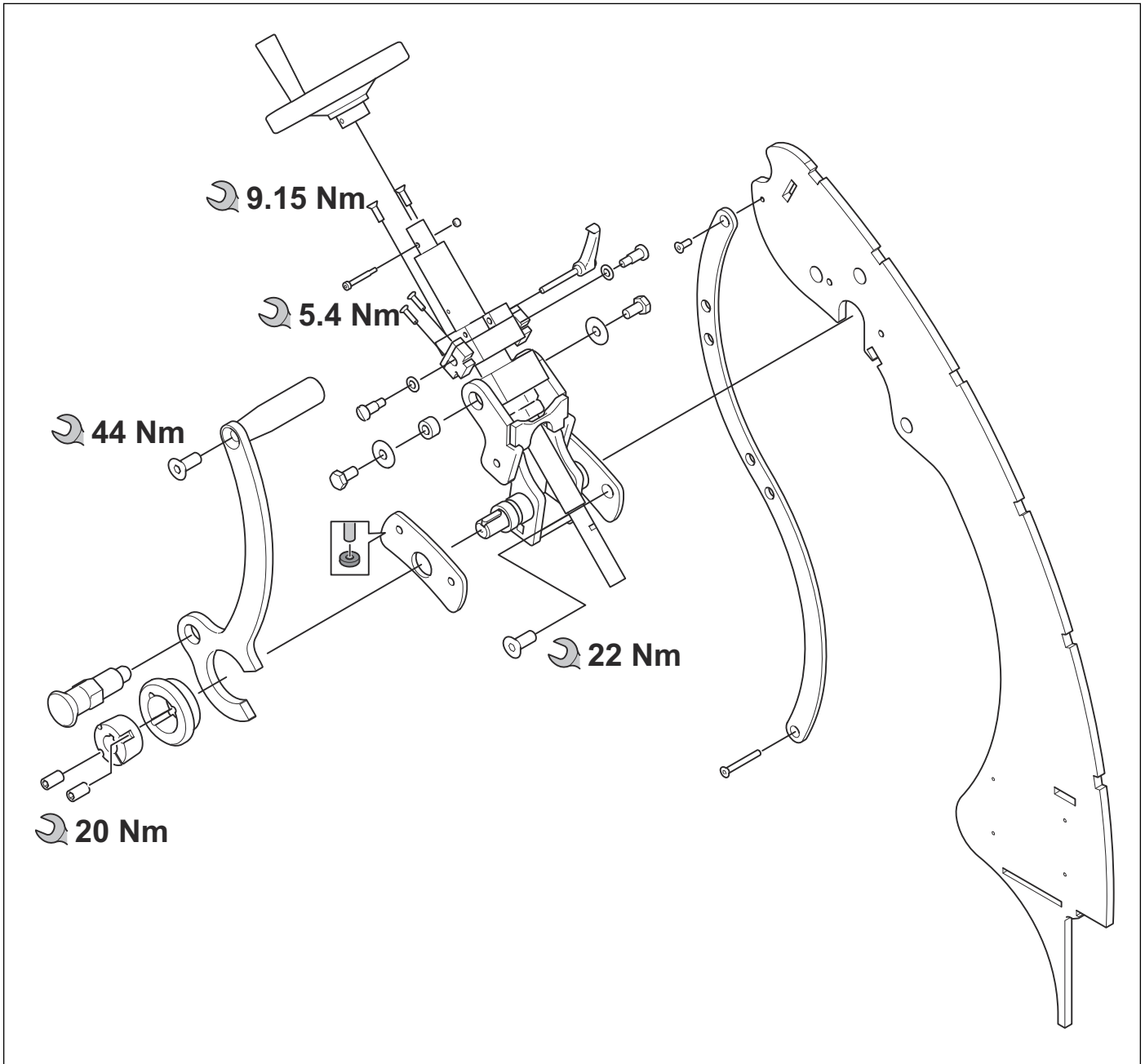


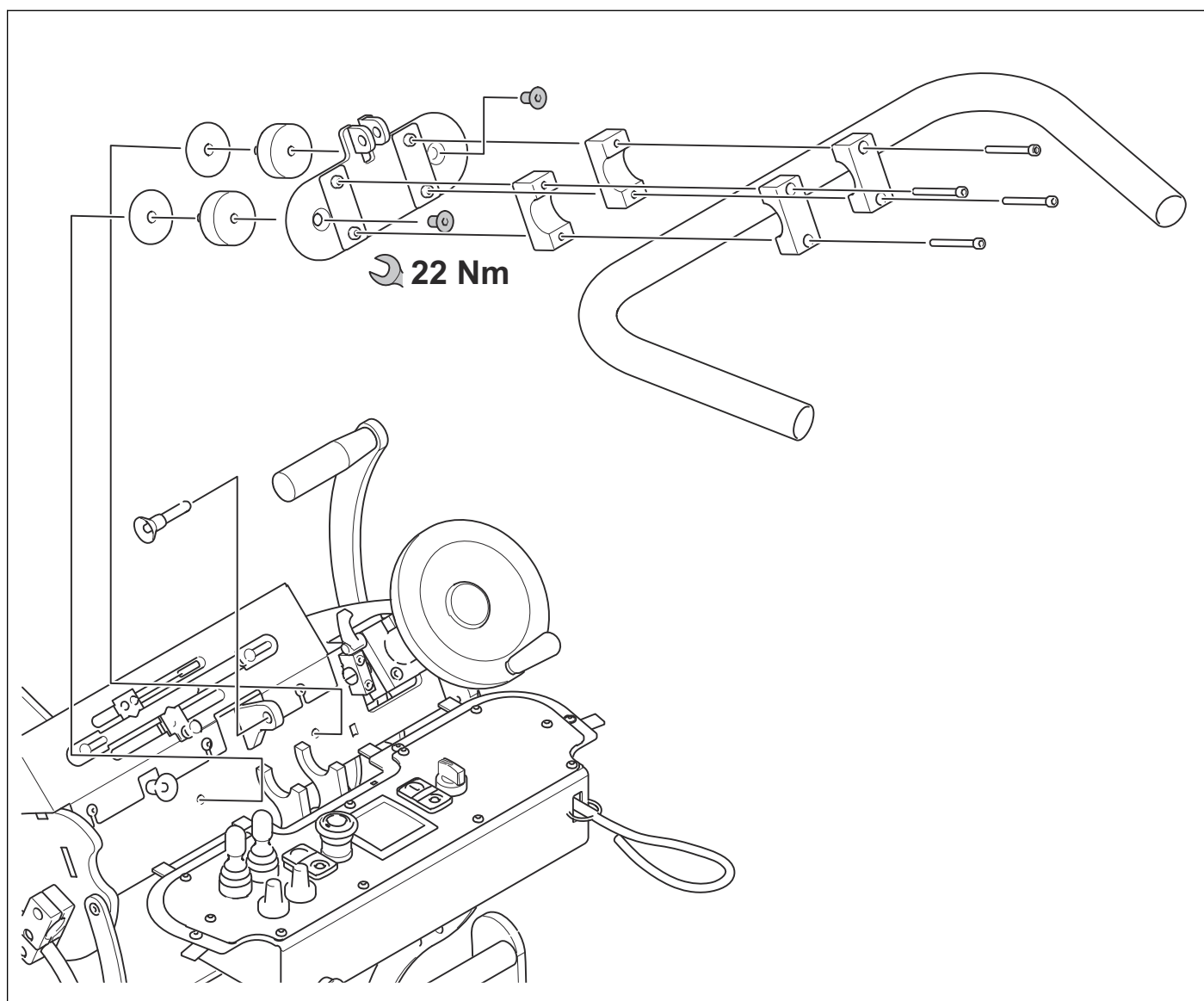
This product conforms to applicable UK regulations.

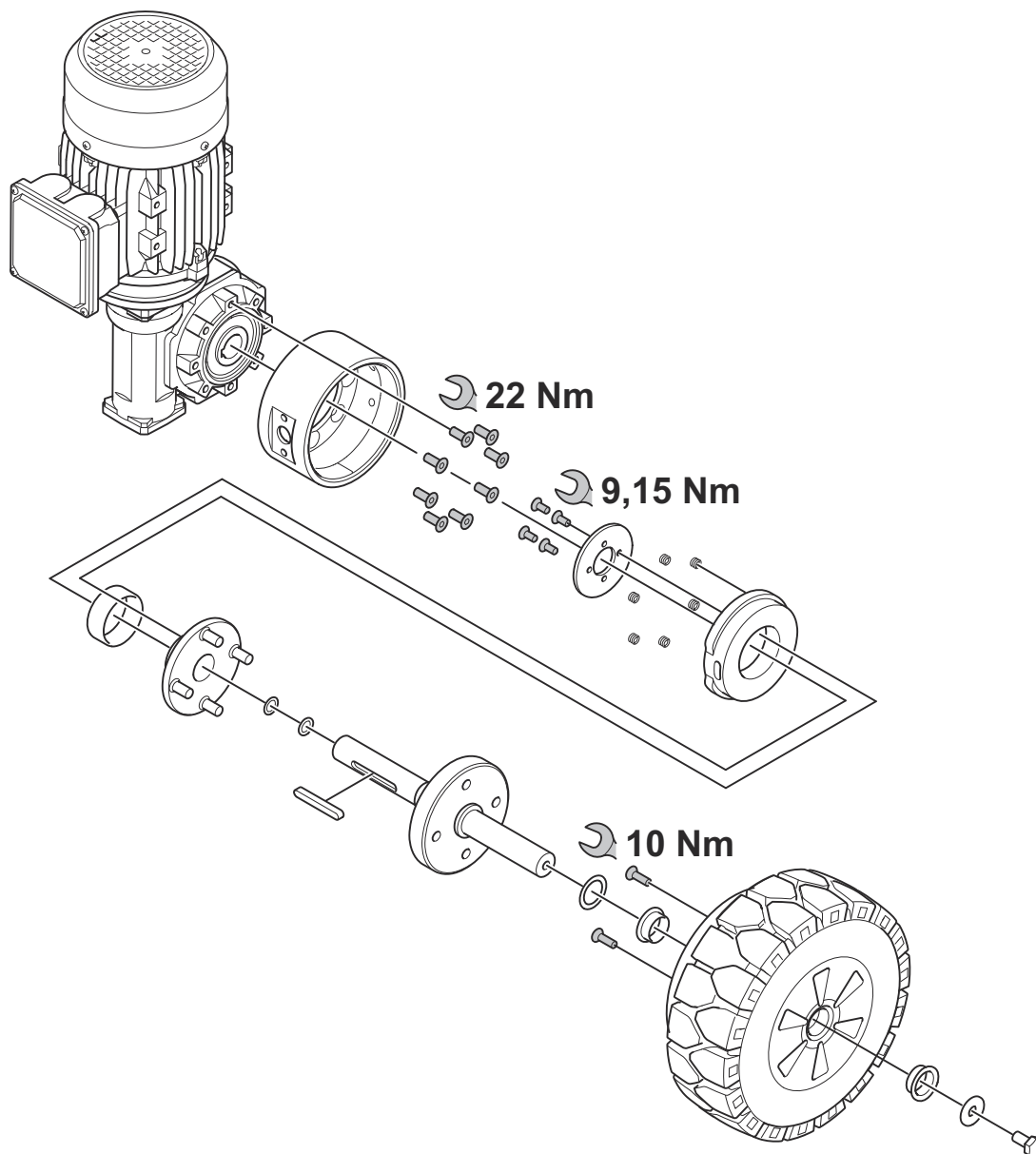
Note: Other symbols/decals on the product refer to special certification requirements for some markets.

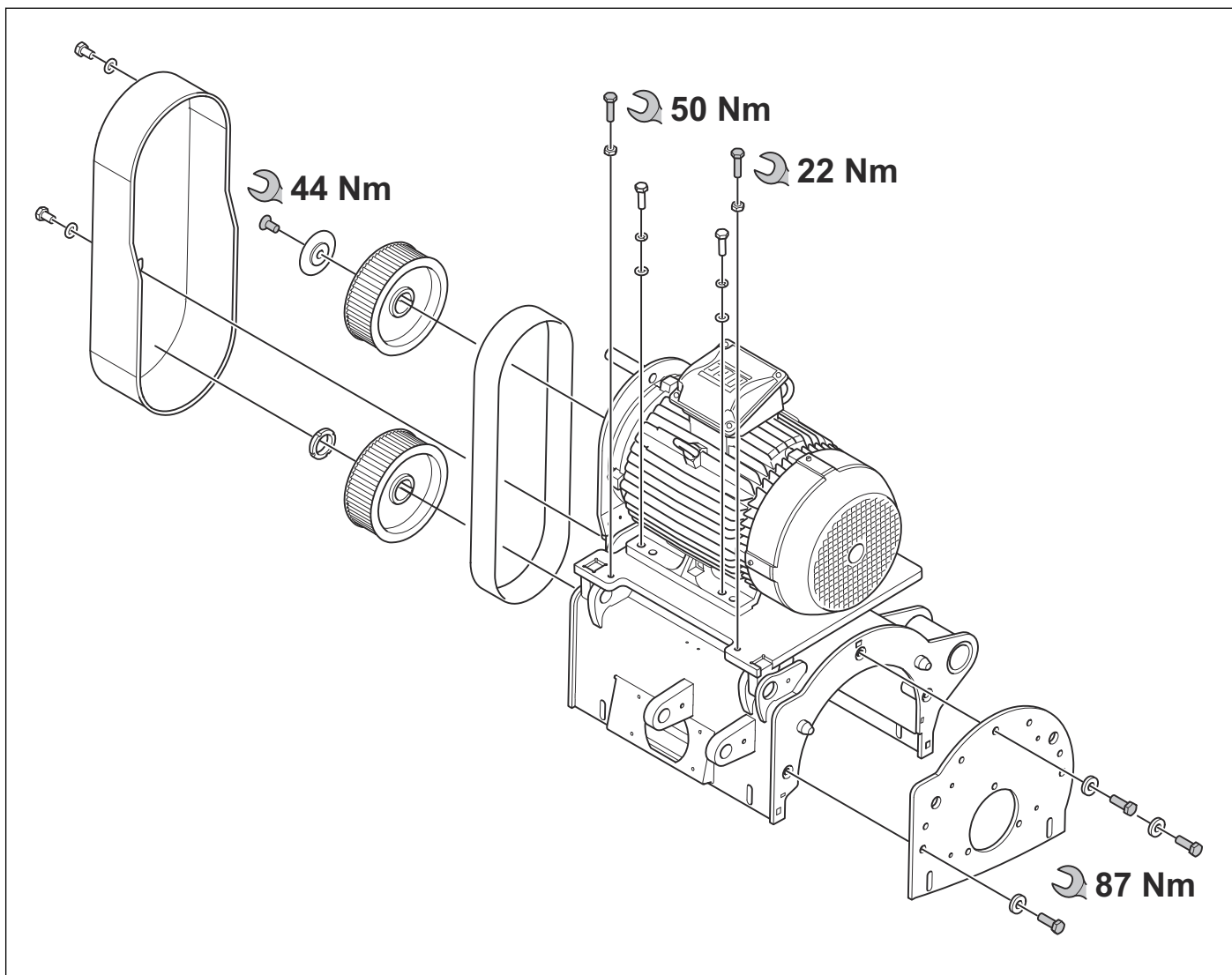
3 Servicing data

3.1 Tightening torques

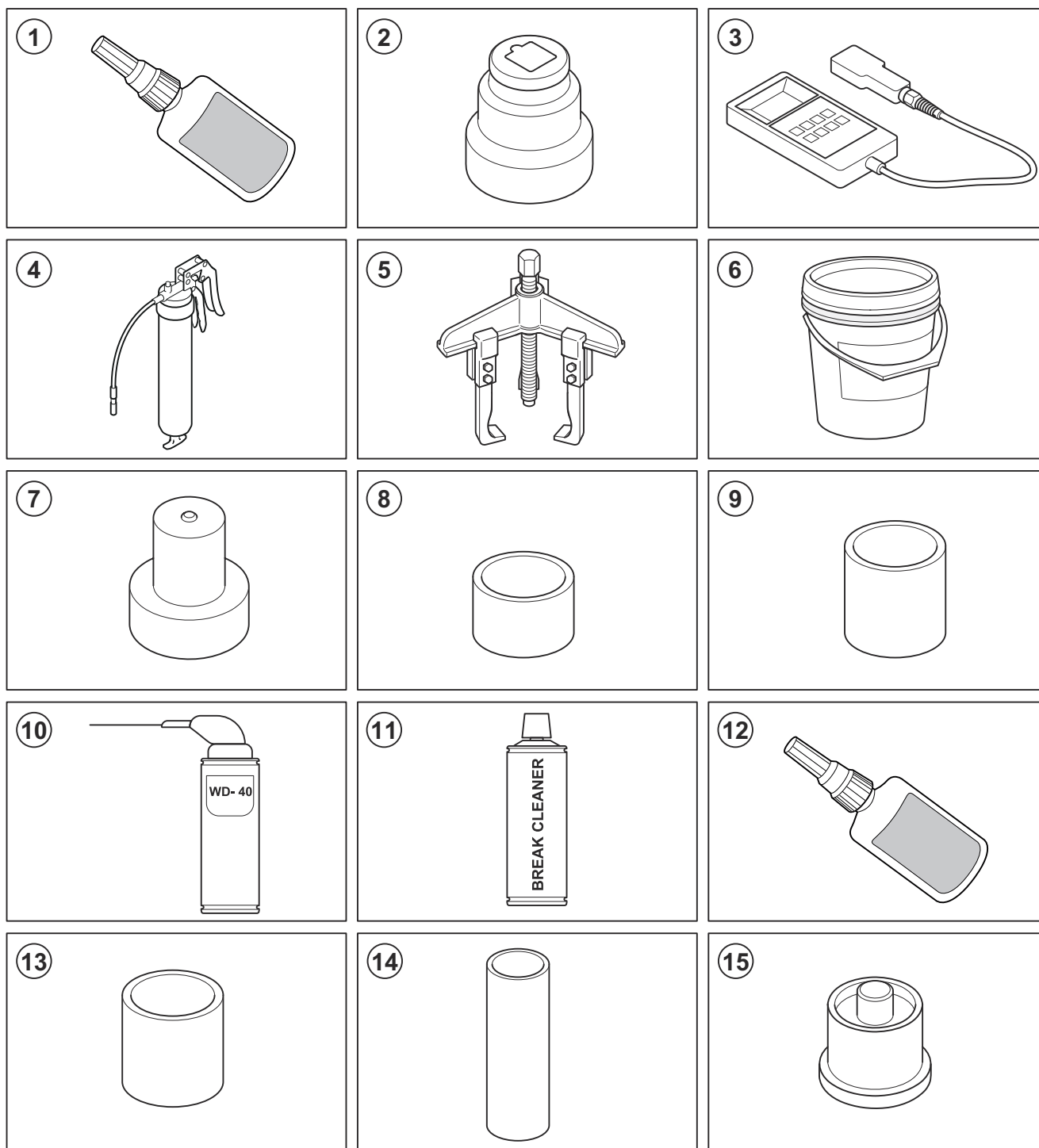








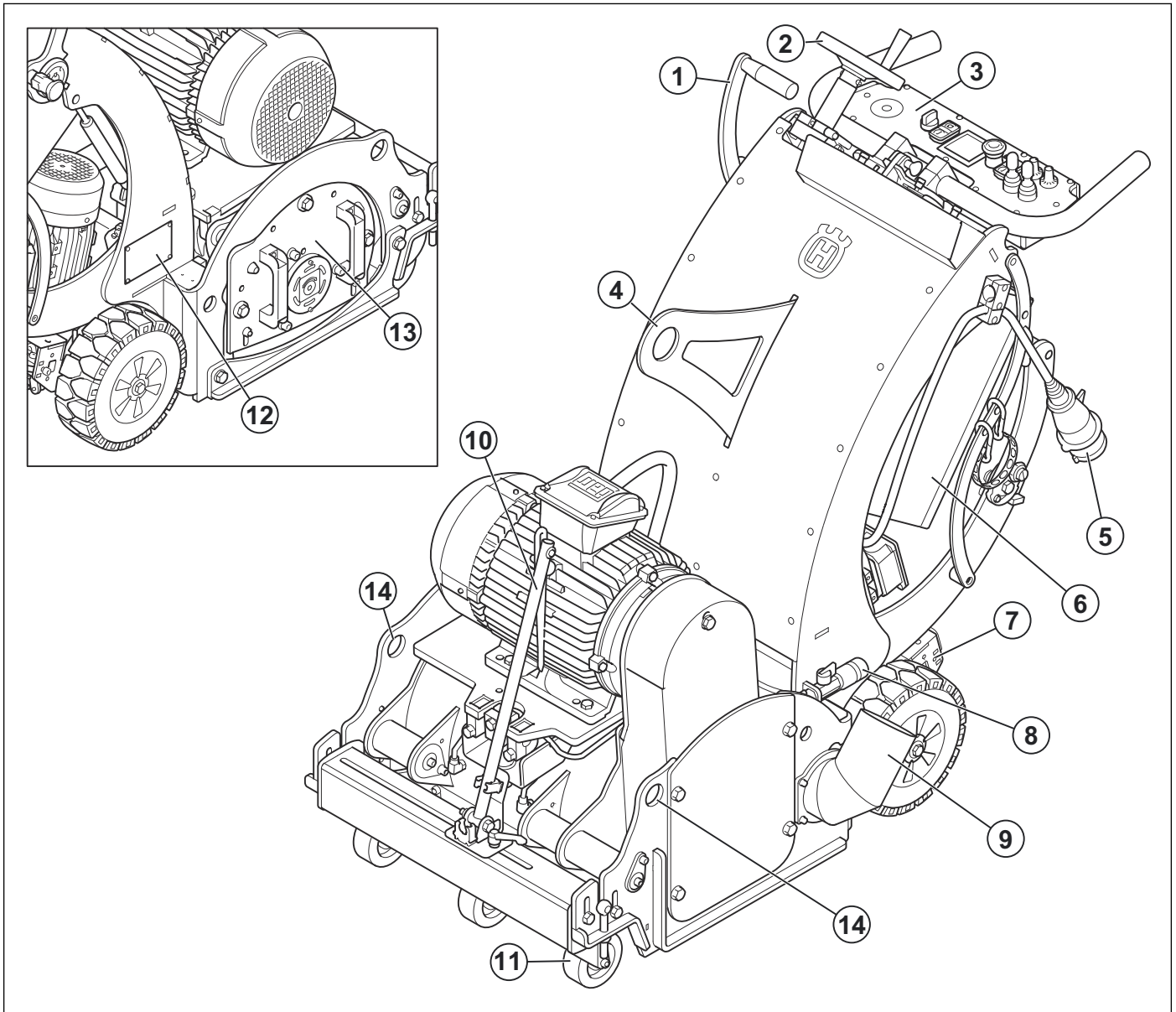
4 Servicing tools overview



Item	Description	Use	Article number/Type
1	Loctite 243	Various	-
	Loctite 603		
	Loctite 648		
	Loctite 641		
2	½" internal KM locknut socket	To remove and install the lower pulley	534 603 50-1
3	Frequency meter	To do a check of the belt tension	-
4	Grease gun	Various	-
5	Puller	To remove the pulleys	-
6	SKF Bearing grease	Various	536 981 40-1
7	Mandrel	To assemble and install the drum bearing kits	E20207
8	Mandrel	To assemble the right drum bearing kit	546 26 97-01
9	Mandrel	To assemble the right drum bearing kit	E20213
10	Multi lubrication spray	Various	WD40
11	Break cleaner	To install the drum bearing kits	MOTIP break cleaner
12	Retaining compound for cylindrical assemblies	Various	-
13	Mandrel	To assemble the left drum bearing kit	E20214
14	Mandrel	To assemble the left drum bearing kit	546 26 94-01
15	Special tool	To install the megi bushes	E13857

5 Product overview for repair and servicing

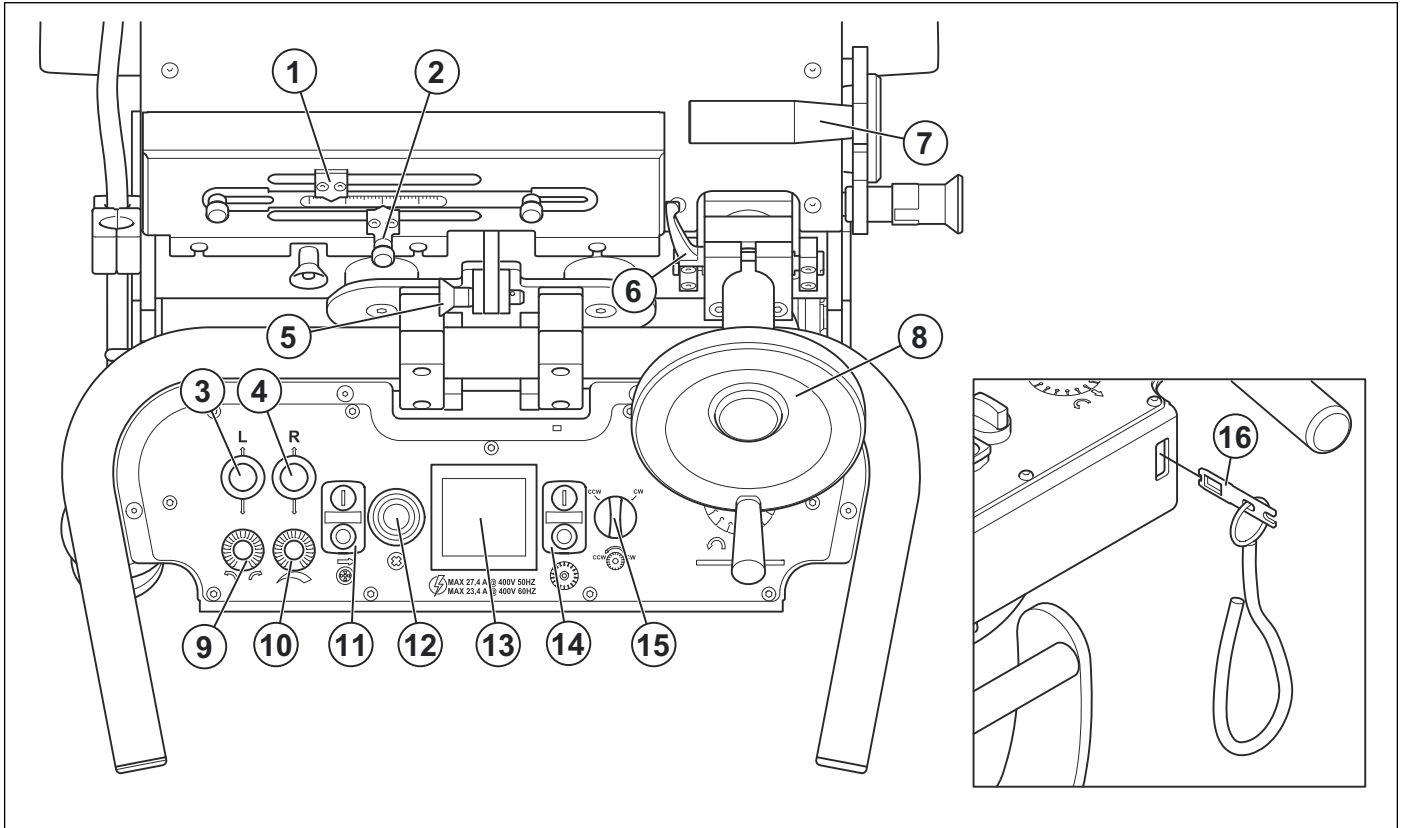
5.1 Product overview



- | | |
|--|---------------------------------|
| 1. Lift lever | 9. Connector for dust extractor |
| 2. Depth adjustment wheel | 10. Direction pointer |
| 3. Control panel | 11. Front wheel |
| 4. Lifting eye | 12. Type plate |
| 5. Power plug | 13. Side cover |
| 6. Electrical enclosure with main switch | 14. Hole for tie-down strap |
| 7. Drive system pedal | |
| 8. Water connection | |

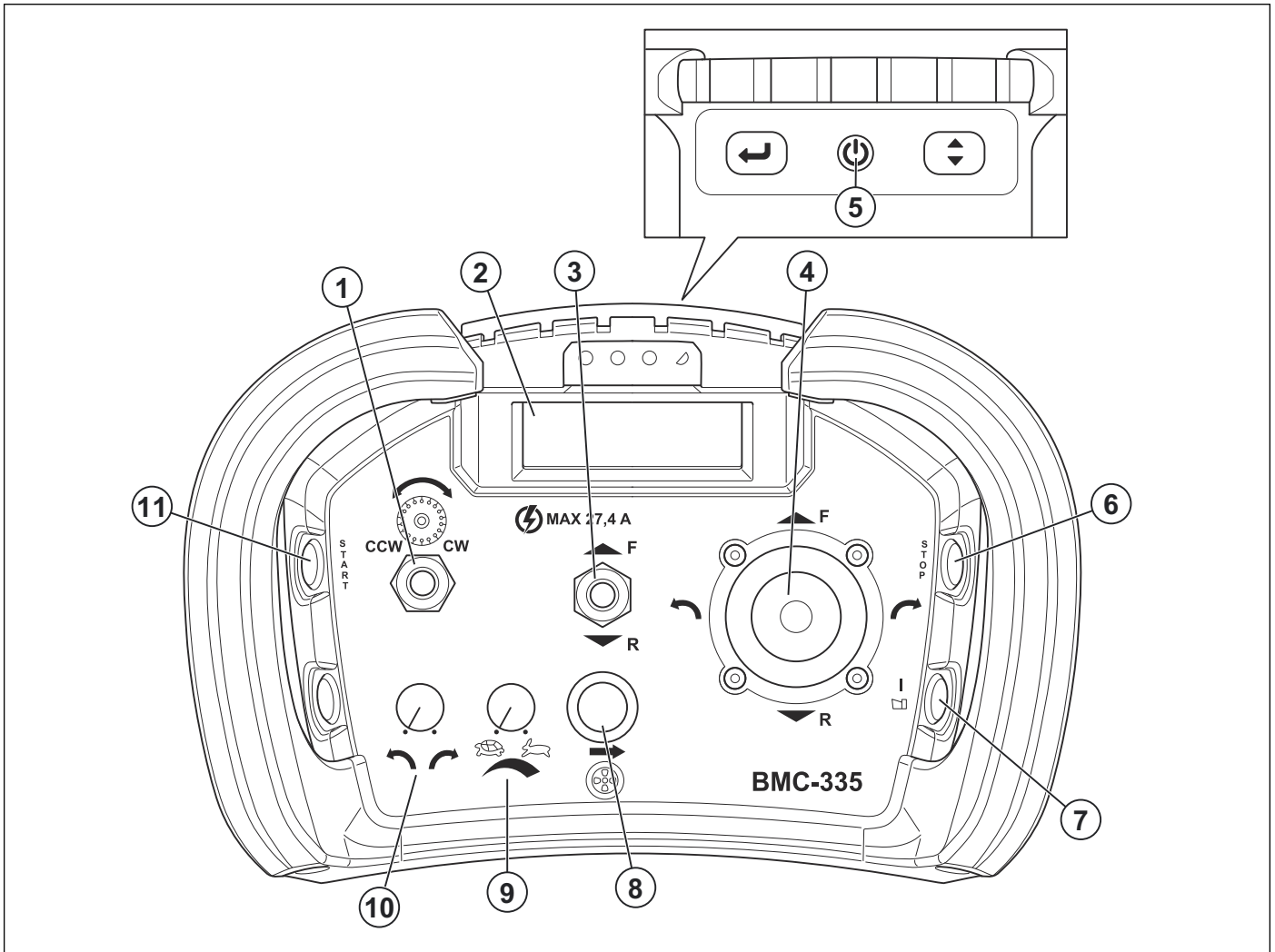
Note: If water is necessary for your operation, speak to a Husqvarna service agent for more information.

5.2 Control panel overview



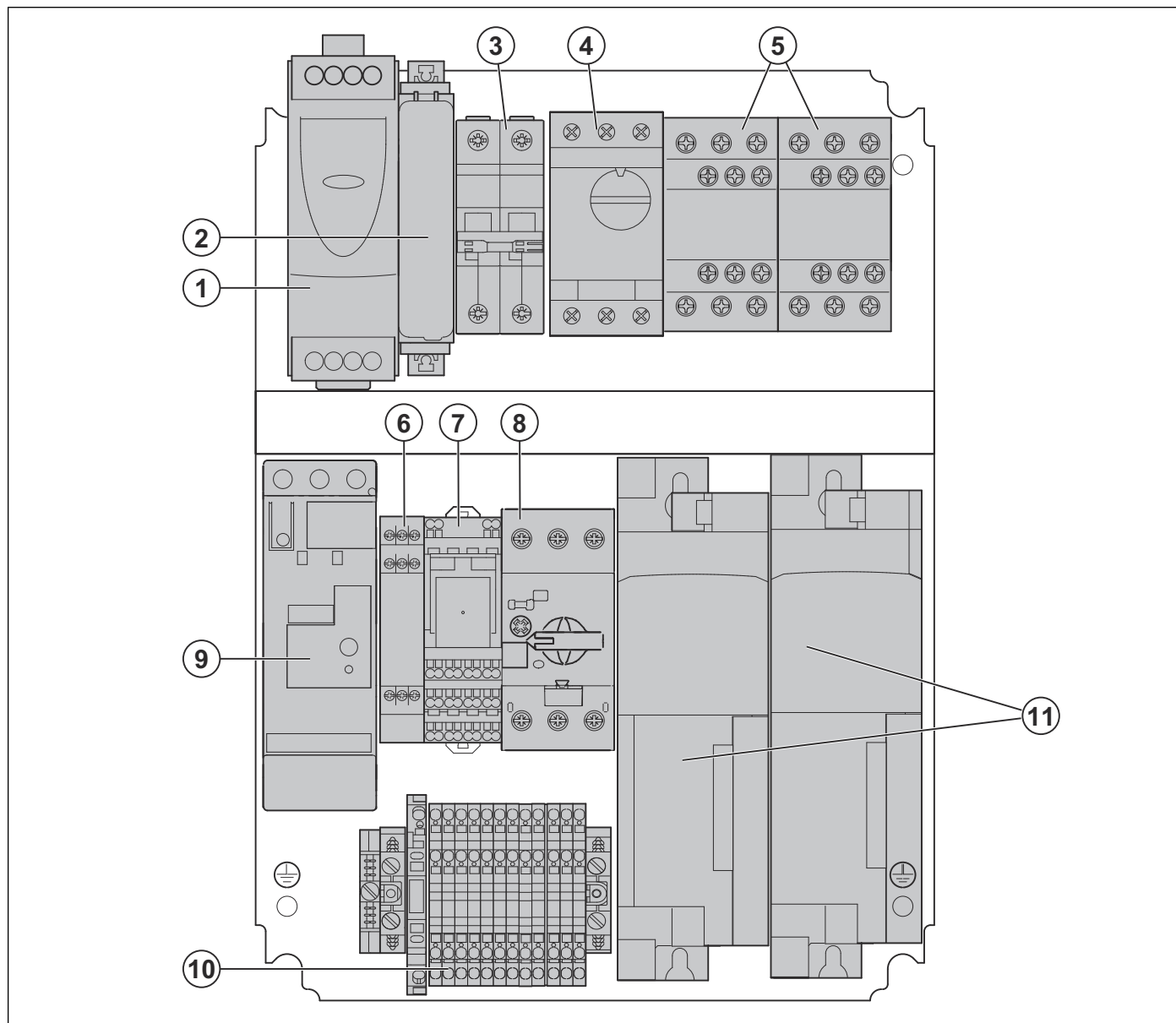
- | | |
|--|--|
| 1. Indicator for depth adjustment | 9. Tracking control |
| 2. Manual depth indicator | 10. Speed adjustment |
| 3. Joystick for forward and rearward movement of the left drive wheel | 11. ON/OFF buttons for drive motor |
| 4. Joystick for forward and rearward movement of the right drive wheel | 12. Emergency stop button |
| 5. Steering lock | 13. Ammeter |
| 6. Lock for depth adjustment wheel | 14. ON/OFF buttons for drum motor |
| 7. Lift lever | 15. Switch for direction of rotation, drum motor |
| 8. Depth adjustment wheel | 16. Operator presence control (OPC) |

5.3 Remote control overview



- | | |
|---|---------------------------------|
| 1. Switch for direction of rotation, drum motor | 7. Button for pairing operation |
| 2. Display | 8. Automatic drive |
| 3. Switch for forward or reverse operation | 9. Speed adjustment |
| 4. Joystick | 10. Tracking adjustment |
| 5. ON/OFF button | 11. Start button for drum motor |
| 6. Stop button for drum motor | |

5.4 Electrical box



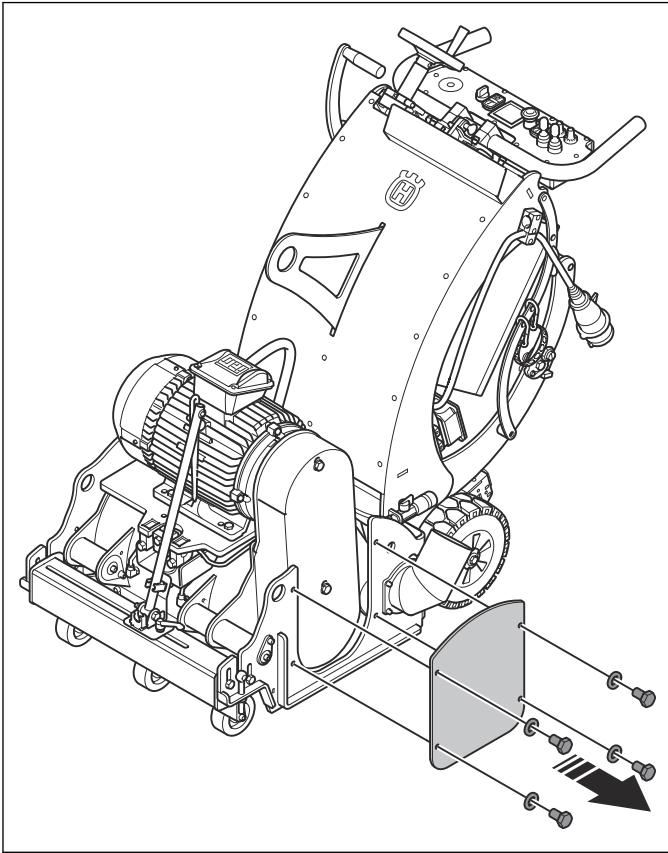
1. 24Vdc power supply 11V15
2. Emergency stop 14U25
3. Circuit breaker 11F15
4. MCB 10Q35
5. Contactors 15K10 and 15K10.1
6. Phase sequence relay 10K50
7. Interface relay 15K25
8. Main switch 10Q05
9. Soft starter 10U15
10. Terminal block
11. Frequency drive 10U35 and 10U45

6 Repair and servicing

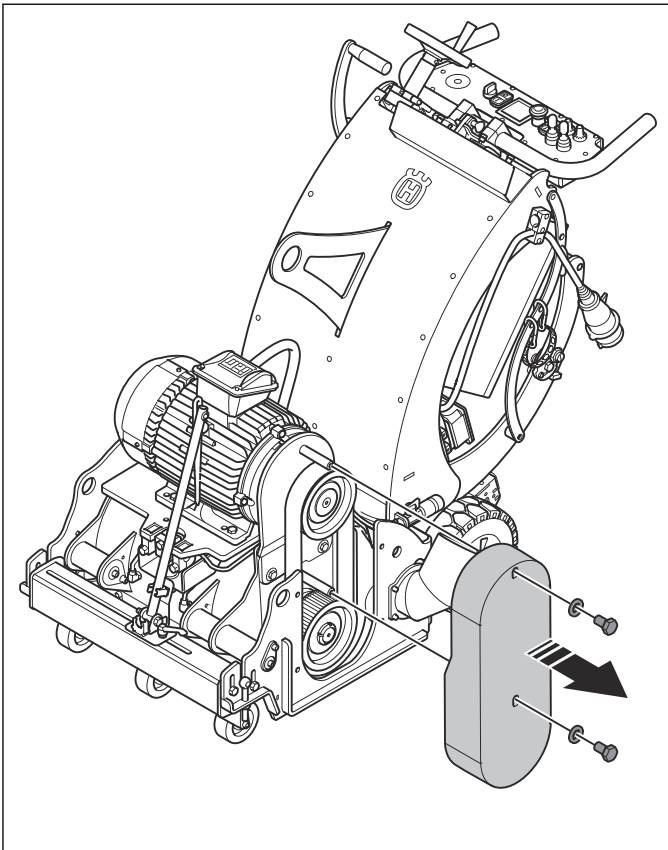
6.1 Belt and pulleys

6.1.1 To remove and install the V-belt

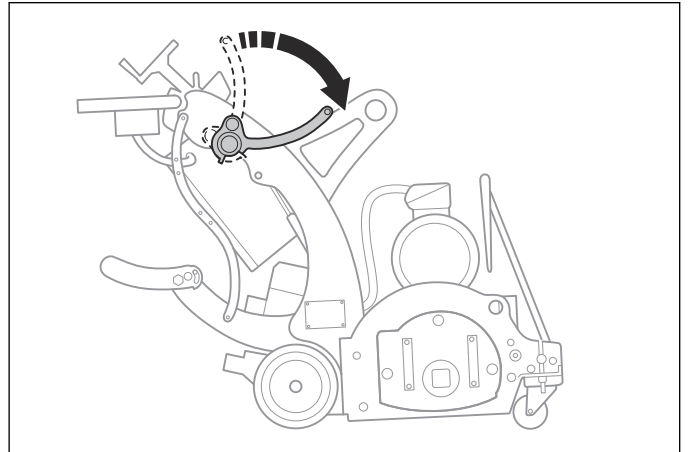
1. Remove the 4 screws, the 4 washers and the plate.



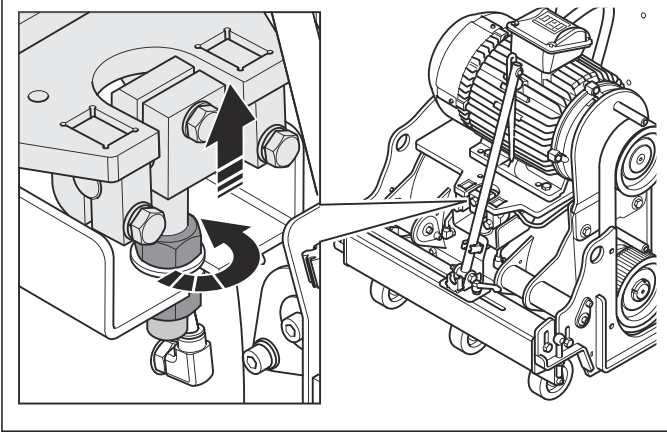
2. Remove 2 screws, the 2 washers and the V-belt cover.



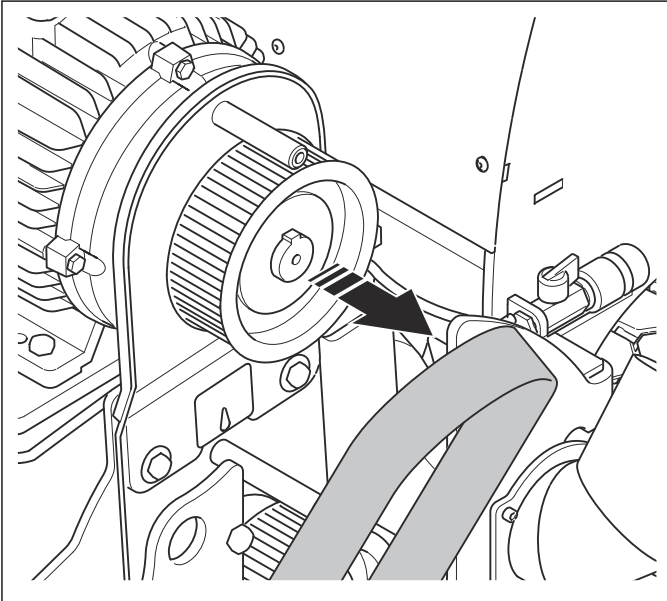
3. Lower the drum.



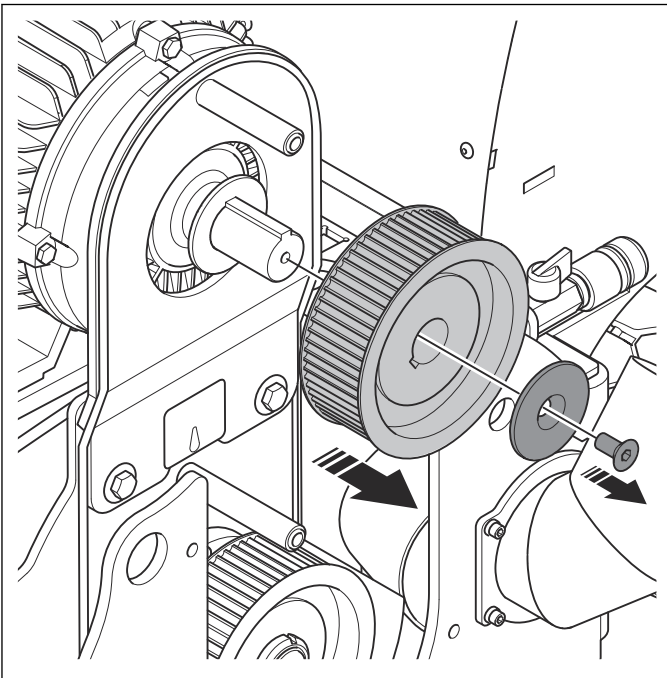
4. Loosen the belt tensioner.



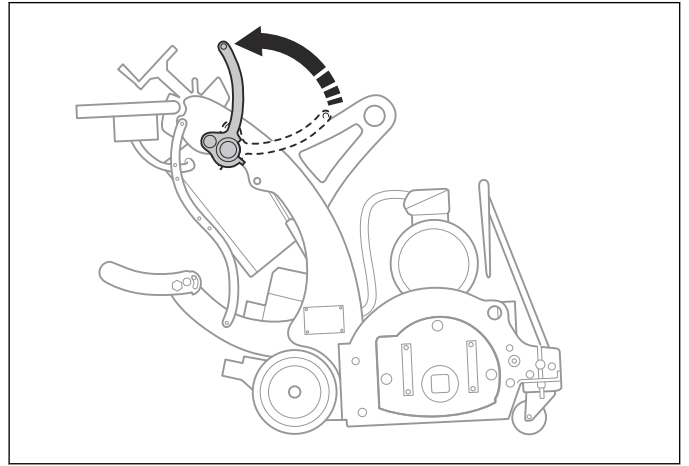
5. Remove the V-belt from the top pulley wheel.



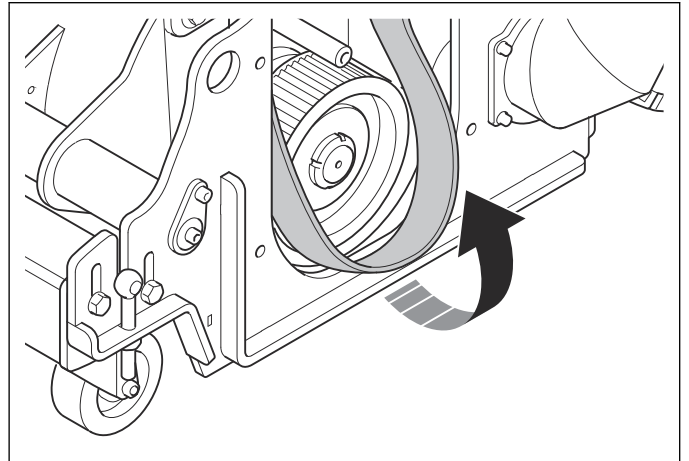
6. Remove the screw, the mounting bush and the top pulley wheel.



7. Lift the drum.



8. Remove the V-belt from the lower pulley.

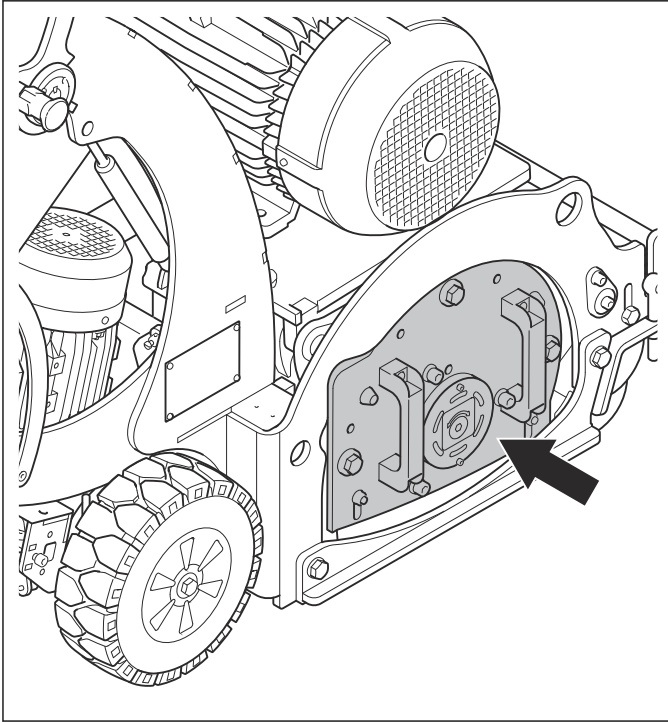


9. Install the V-belt in the opposite sequence. Apply Loctite 243 to the screw for the mounting bush before you install it.

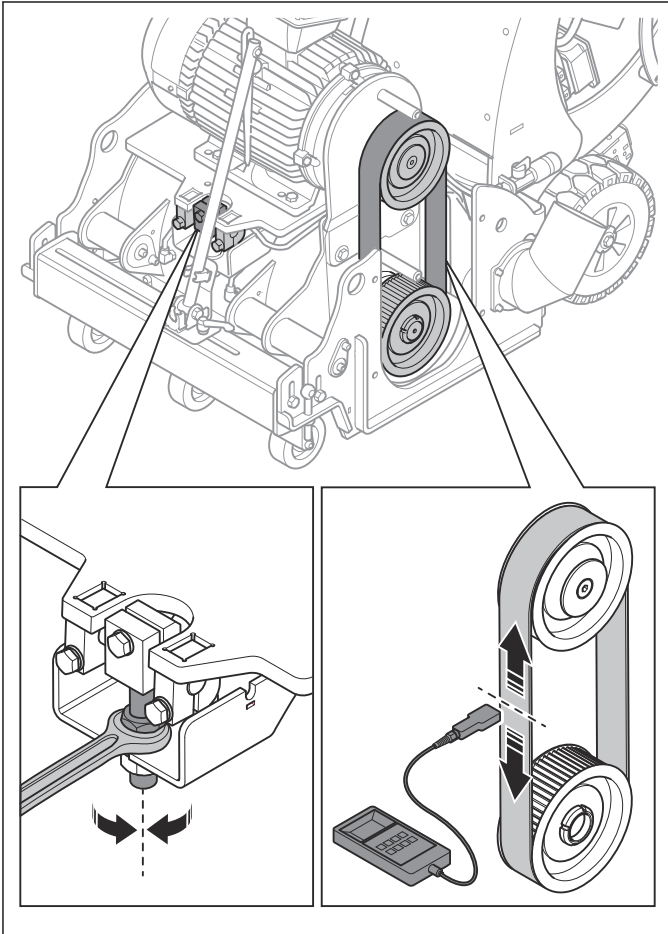
10. Adjust the V-belt tension, refer to *To adjust the V-belt tension on page 17*.

6.1.2 To adjust the V-belt tension

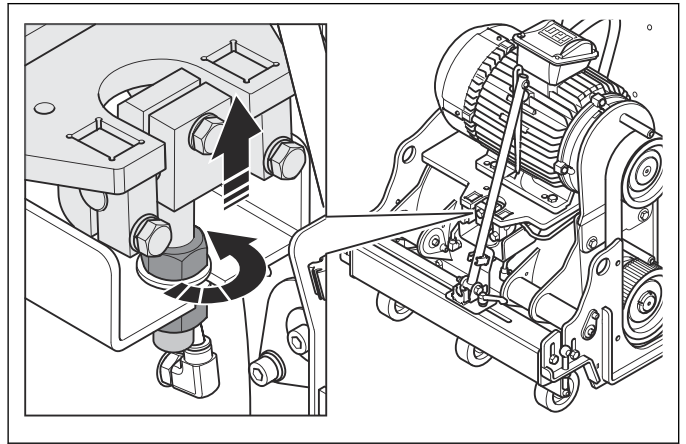
1. Make sure that the side plate is installed.



2. Measure the frequency in the middle of the V-belt with a frequency meter.

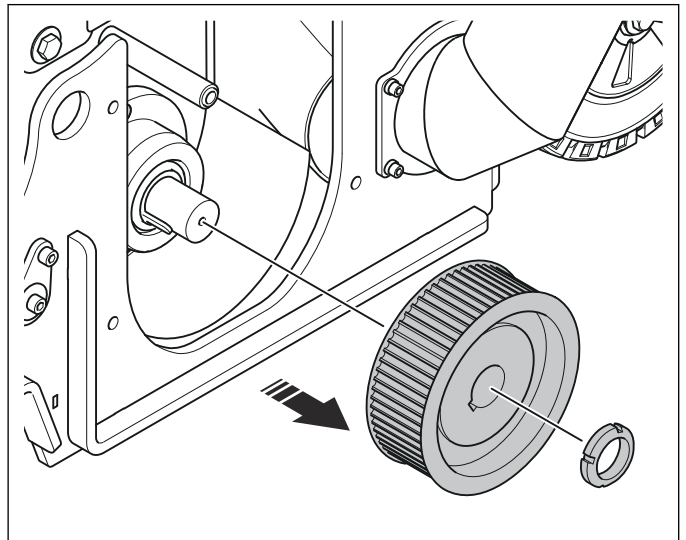


3. Adjust the V-belt tensioner until the frequency is 68 ± 2 Hz.



6.1.3 To remove and install the pulleys

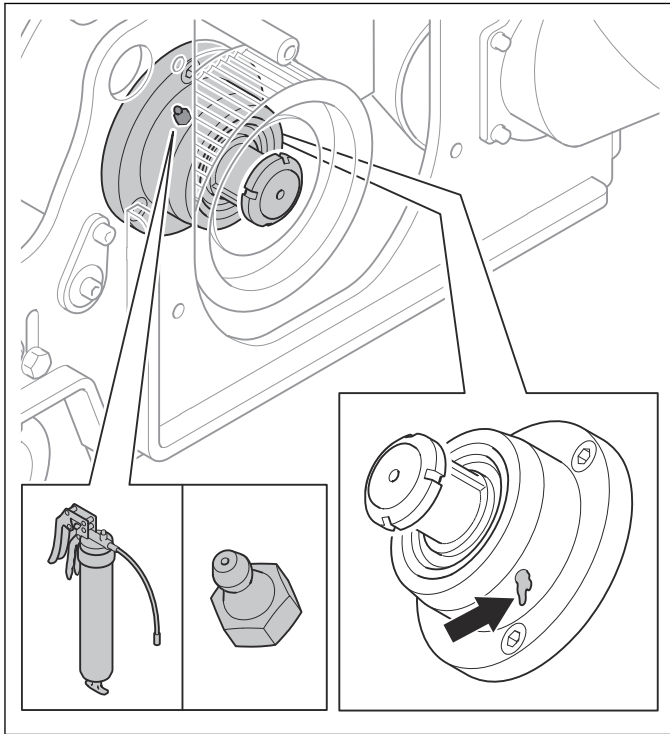
1. Remove the V-belt. Refer to *To remove and install the V-belt on page 15*.
2. Remove the nut and the lower pulley with the groove nut socket.



3. Install the pulleys in the opposite sequence. Apply Loctite 243 to the screw for the mounting bush before you install it.

6.1.4 To lubricate the bearing

- Apply 5–10 g of grease to the bearing. Refer to *Technical data on page 67* for the correct type of grease. Push grease through the grease nipple until grease comes out of the hole on the opposite side of the bearing housing.

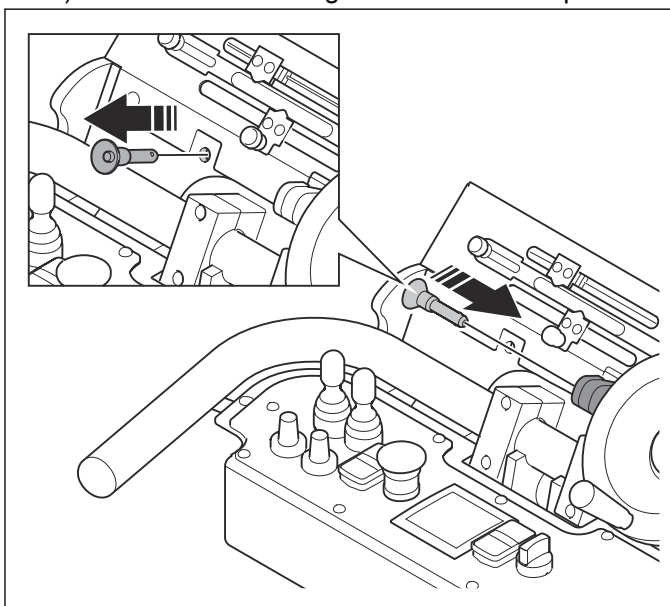


CAUTION: Do not apply too much grease. Too much grease can cause damage to the bearing seals.

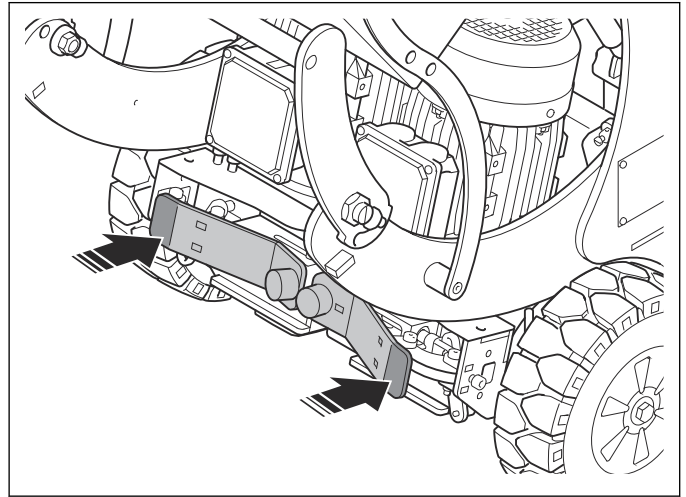
6.2 Drum and drum housing

6.2.1 To remove the drum

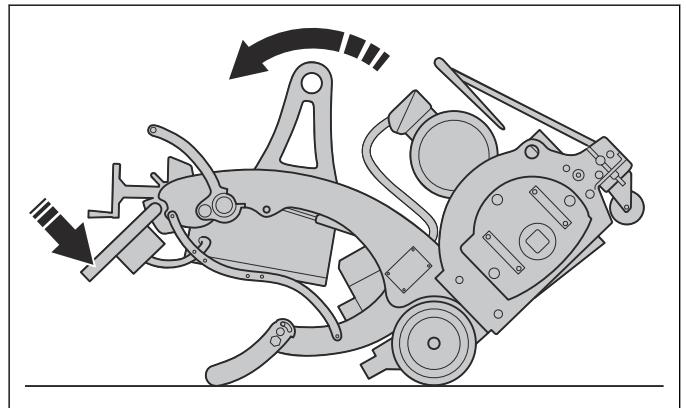
1. Tilt the product rearward:
 - a) Release the steering lock at the control panel.



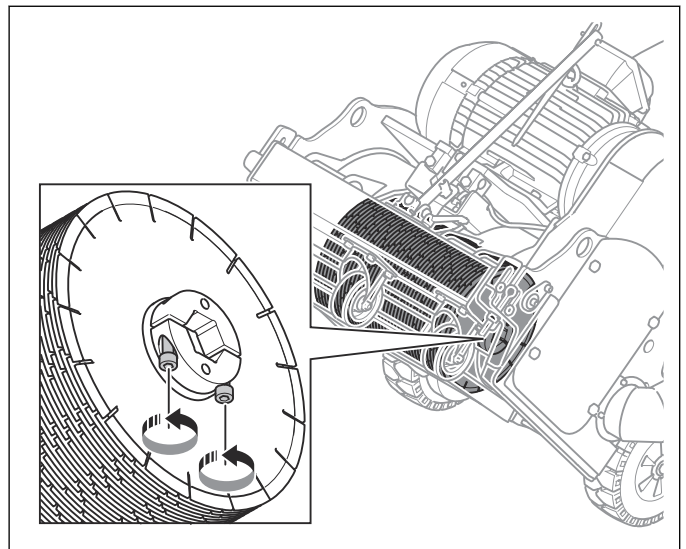
- b) Disengage the drive system.



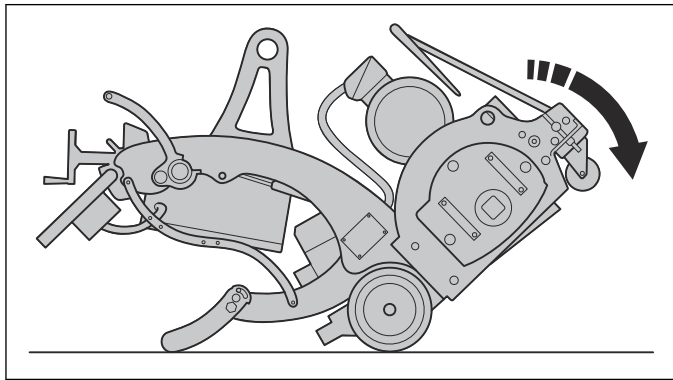
- c) Push down on the handles and the foot support to tilt the product rearward.



2. Loosen the 2 bolts.

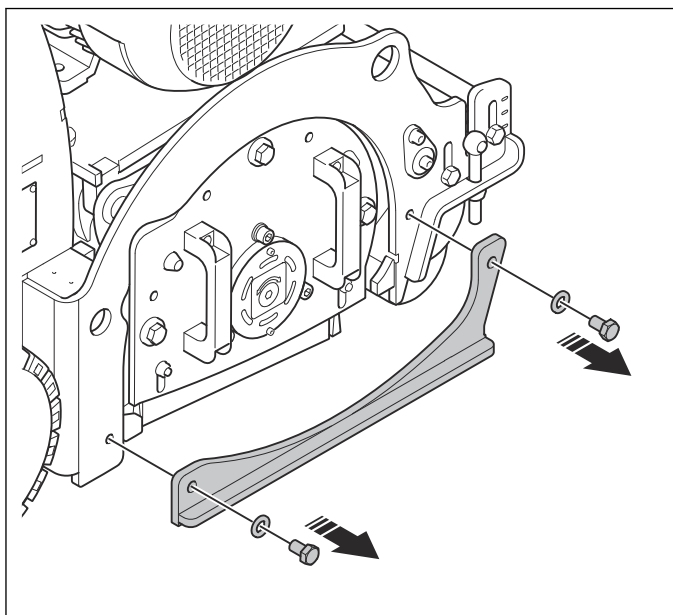


3. Tilt the product forward carefully.

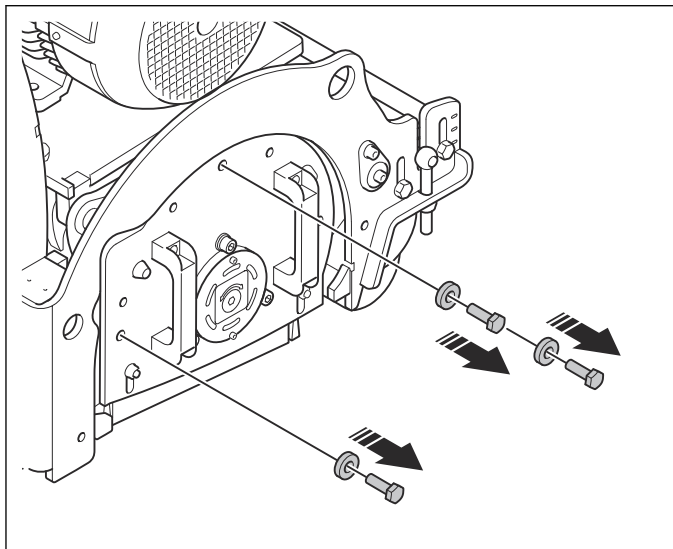


WARNING: The front is very heavy.

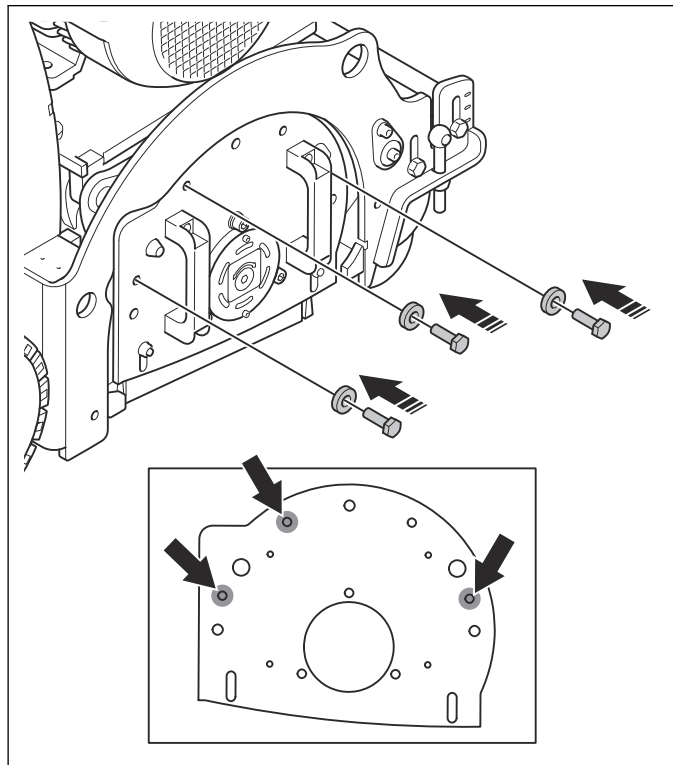
4. Remove the 2 screws, the 2 washers and the seal hub.



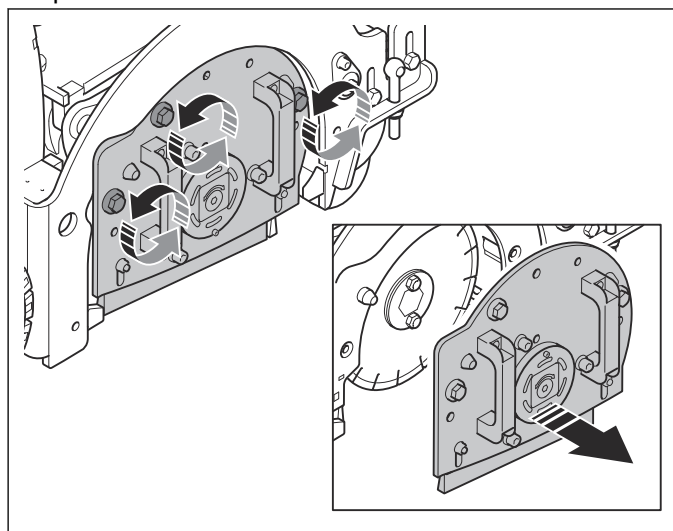
5. Remove the 3 bolts and the 3 washers.



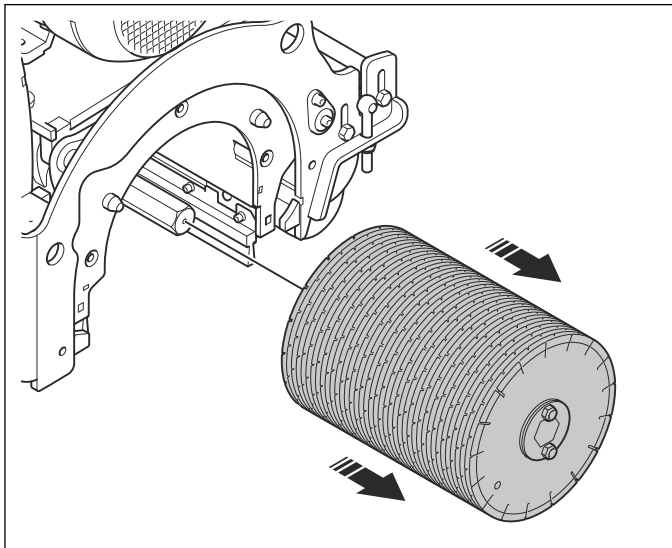
6. Install the 3 bolts and the 3 washers in the press holes.



7. Tighten the 3 bolts to press the mount plate off the product.

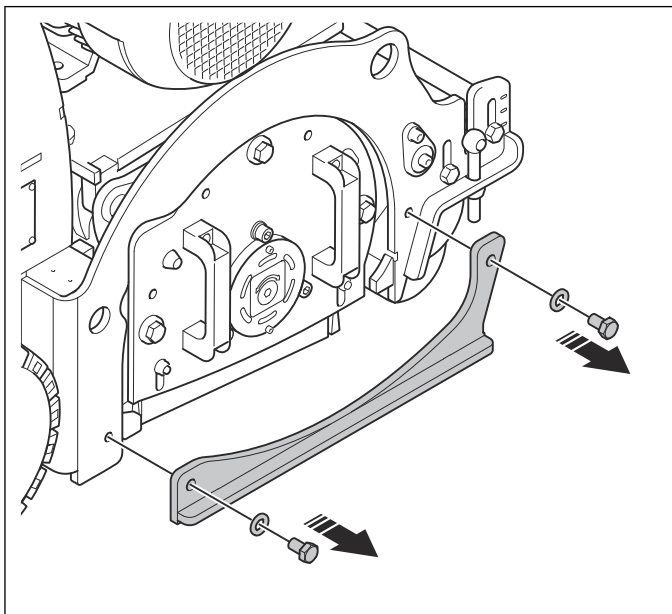


8. Remove the drum.

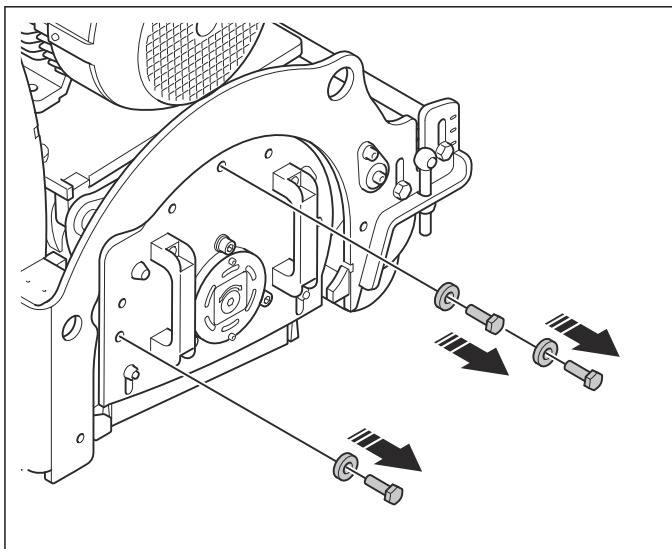


6.2.2 To install the drum

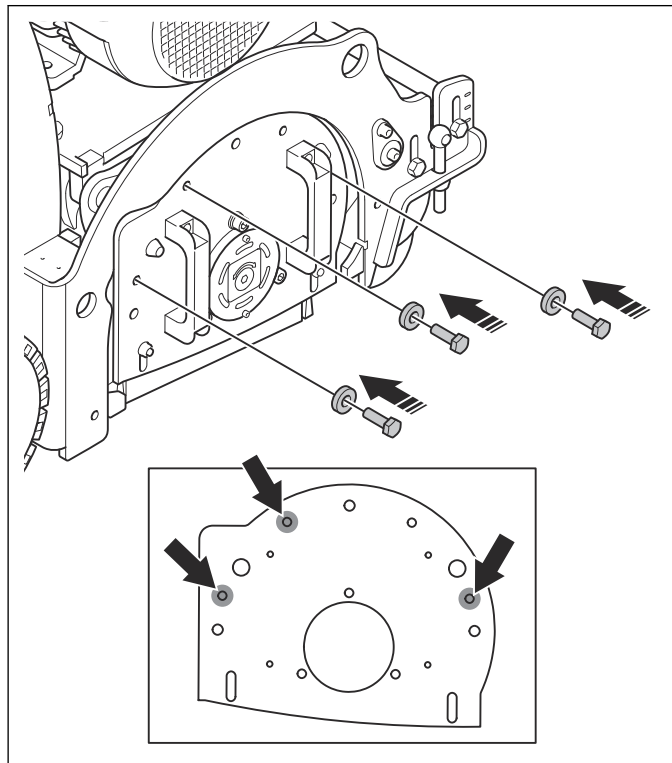
1. Remove the 2 screws, the 2 washers and the seal hub.



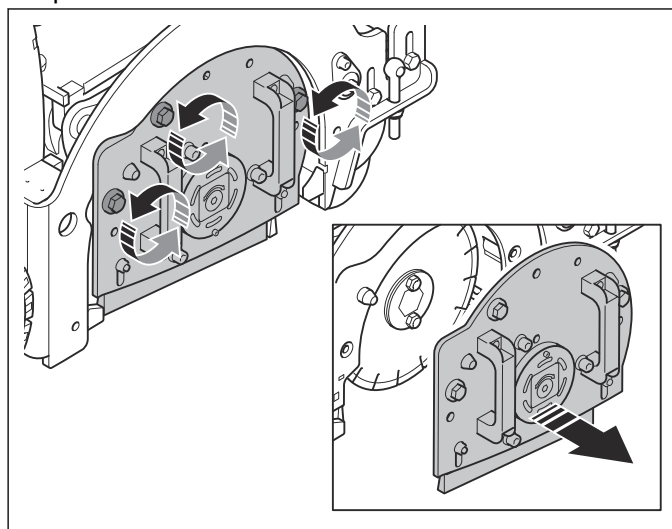
2. Remove the 3 bolts and the 3 washers.



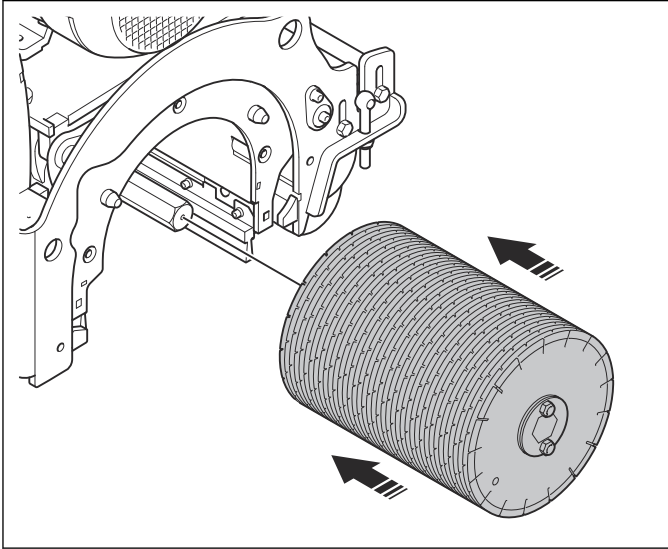
3. Install the 3 bolts and the 3 washers in the press holes.



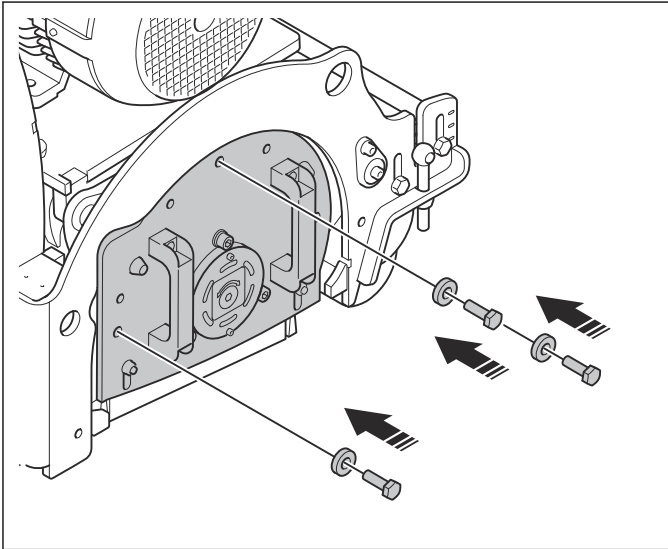
4. Tighten the 3 bolts to press the mount plate off the product.



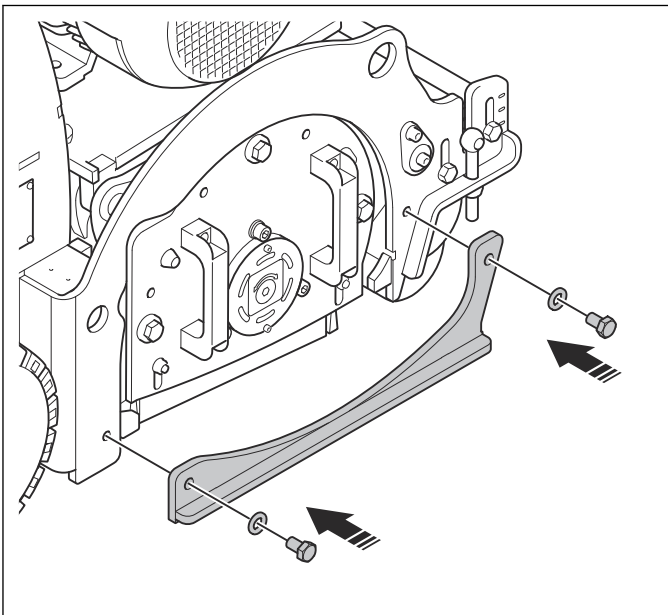
5. Install the drum.



6. Install the mount plate, the 3 bolts and the 3 washers. Tighten the bolts to the correct torque. Refer to *Tightening torques* on page 5.

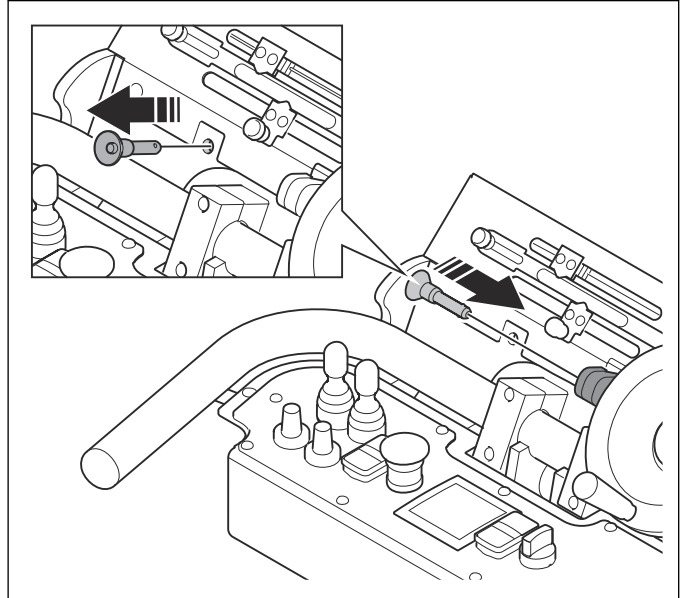


7. Install the 2 screws, the 2 washers and the seal hub.

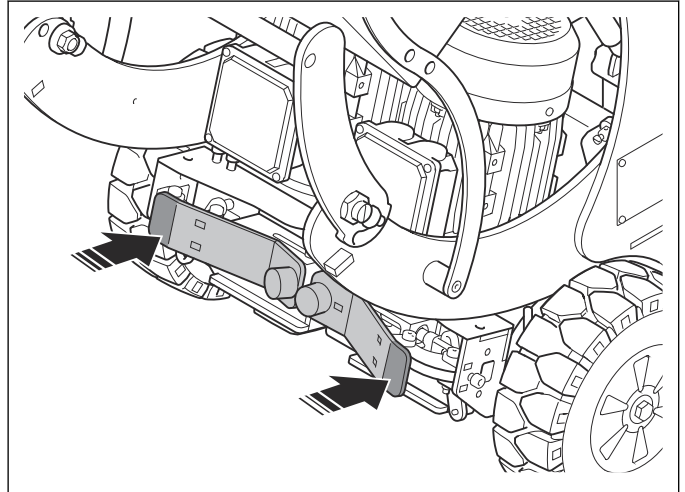


8. Tilt the product rearward:

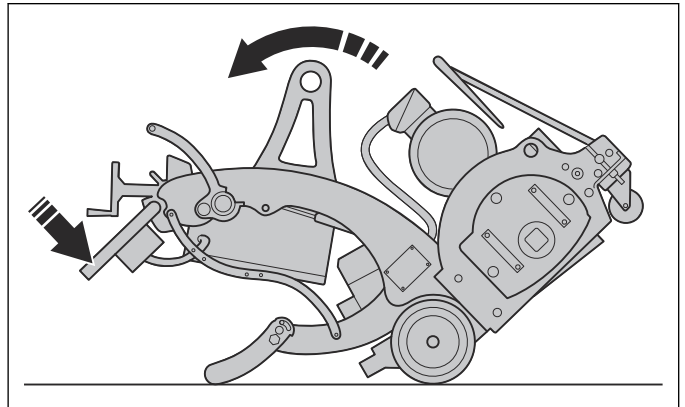
a) Release the steering lock at the control panel.



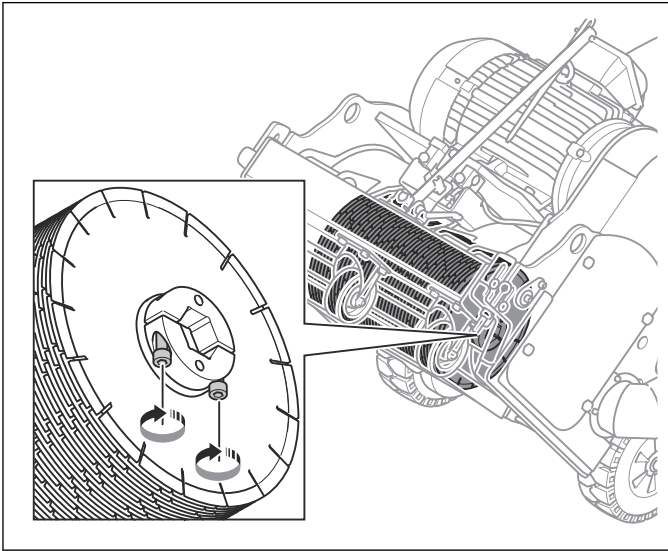
b) Disengage the drive system.



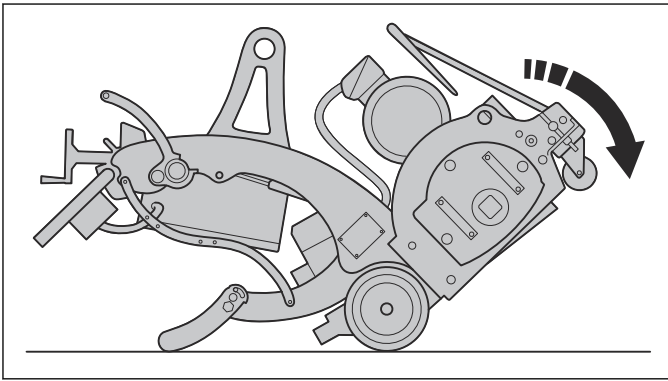
c) Push down on the handles and the foot support to tilt the product rearward.



9. Tighten the 2 bolts.



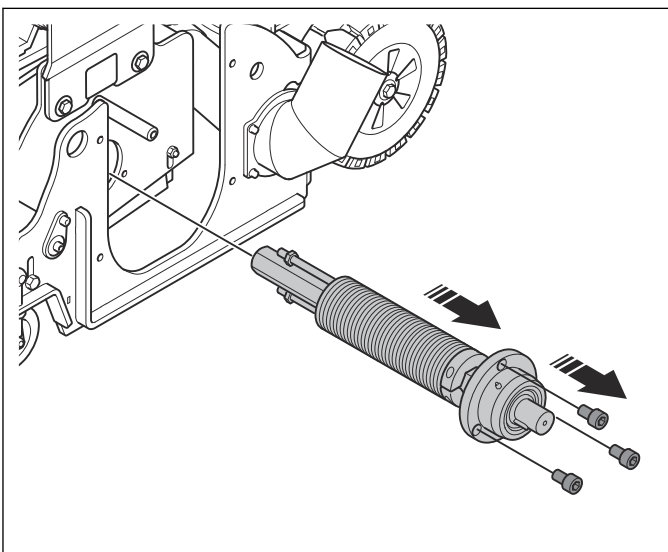
10. Tilt the product forward carefully.



WARNING: The front is very heavy.

6.2.3 To remove and install the drum shaft

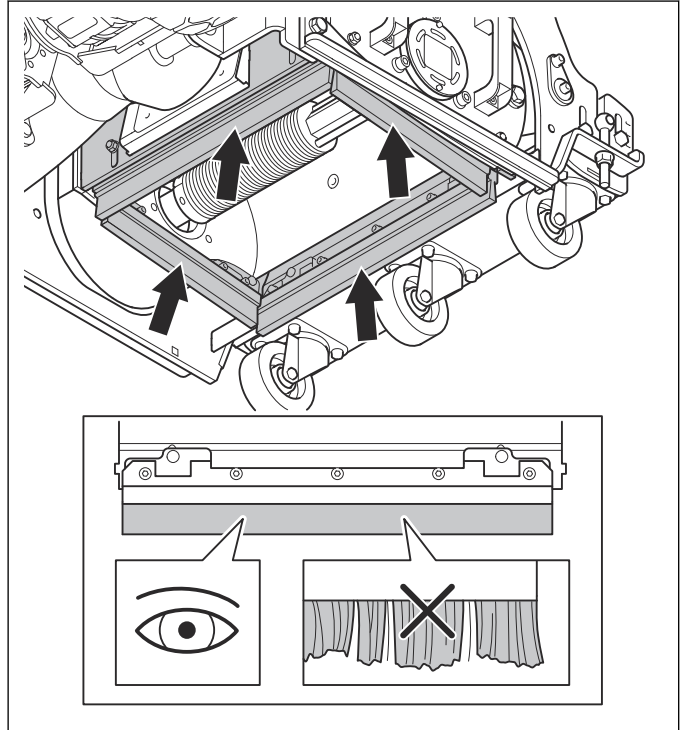
1. Remove the drum. Refer to *To remove the drum on page 18*.
2. Remove the lower pulley. Refer to *To remove and install the pulleys on page 17*.
3. Remove the 3 screws and the drum shaft.



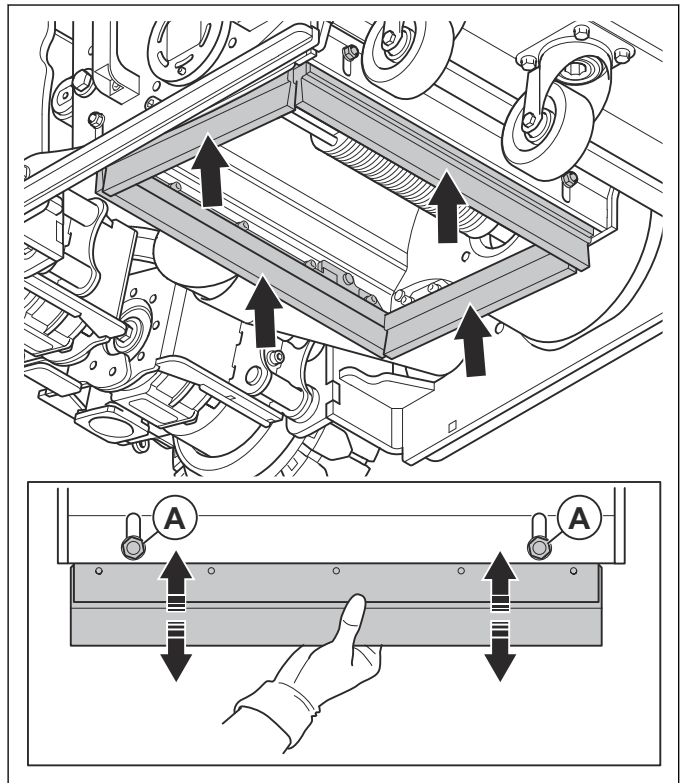
4. Install the drum shaft in the opposite sequence. Apply Loctite 243 to the 3 screw holes before you install the screws.

6.2.4 To do a check of the drum housing

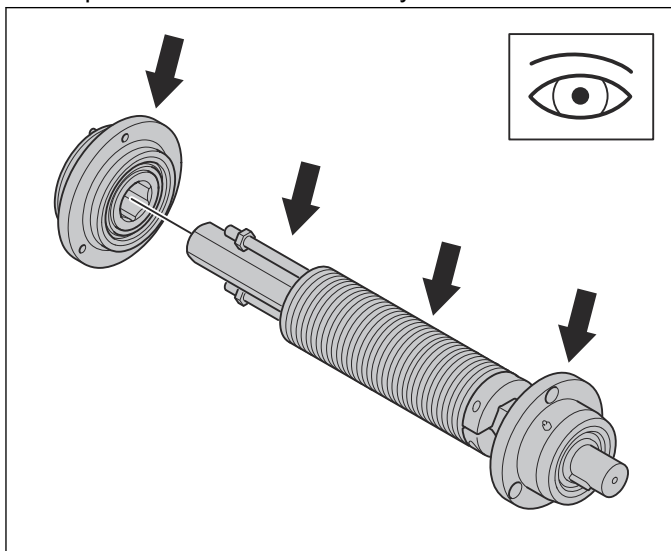
1. Remove the drum. Refer to *To remove and install the drum shaft on page 22*.
2. Do a check of the brushes for wear. Replace them if it is necessary.



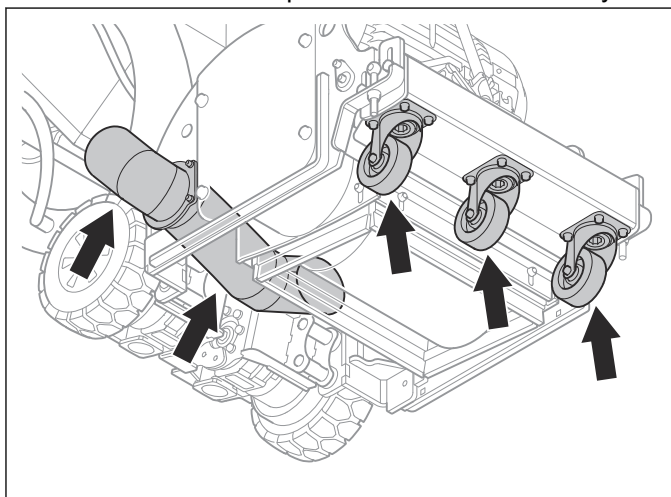
3. Loosen the screws (A) to adjust the height of the brushes if it is necessary. Tighten the screws to lock the brushes at an applicable height.



4. Do a check of the bearings and axles for wear. Replace them if it is necessary.



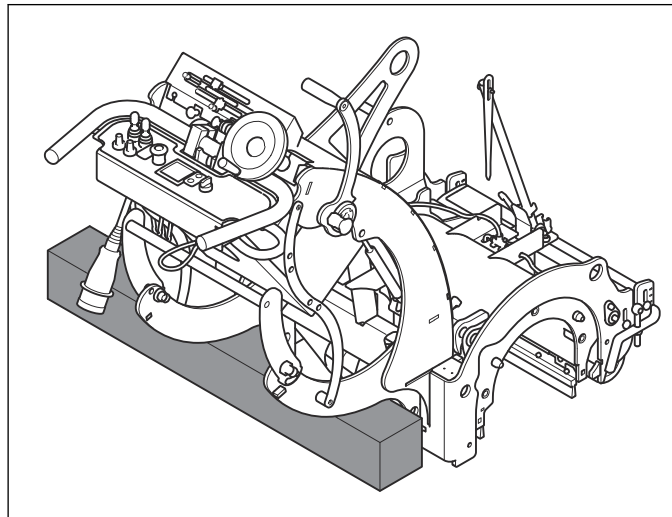
5. Do a check of the hose, the outlet pipe and the wheels for wear. Replace them if it is necessary.



6.2.5 To remove and install the drum housing

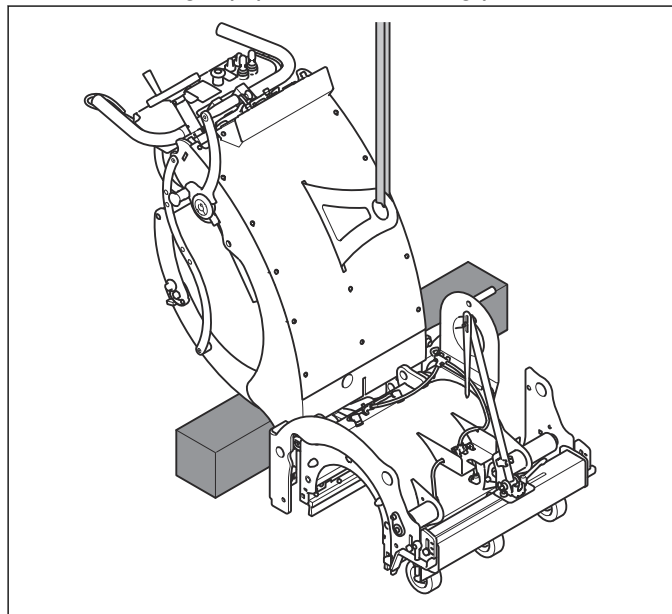
1. Remove the V-belt. Refer to *To remove and install the V-belt on page 15*.
2. Remove the pulleys. Refer to *To remove and install the pulleys on page 17*.
3. Remove the drum. Refer to *To remove the drum on page 18*.
4. Remove the drum shaft. Refer to *To remove and install the drum shaft on page 22*.
5. Remove the motor. Refer to *To remove the motor on page 33*.
6. Remove the motor plate. Refer to *To remove the motor plate on page 35*.
7. Remove the drive system assemblies. Refer to *To remove the drive system assemblies on page 38*.

8. Put a piece of wood below the product frame.



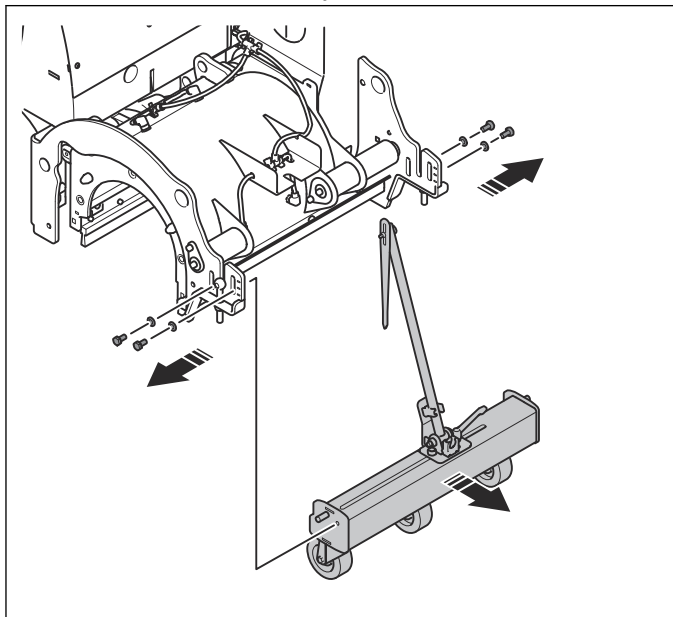
CAUTION: Make sure that the piece of wood supports the weight of the product. There is a risk that the product falls over when a lot of the weight from the front part of the product is removed.

9. Attach lifting equipment to the lifting point.

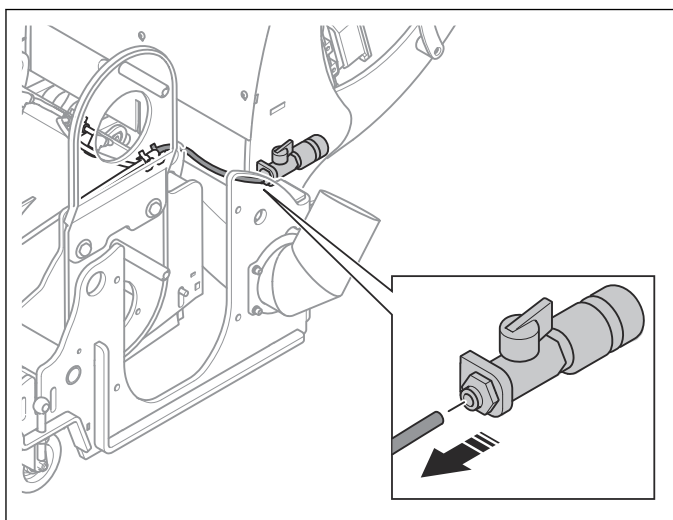


CAUTION: Make sure that the lifting equipment supports the weight of the product. There is a risk that the product falls over when a lot of the weight from the front part of the product is removed.

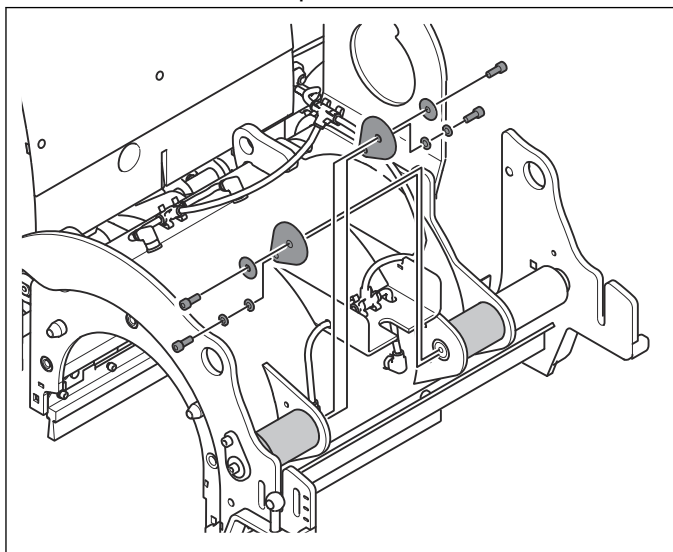
10. Remove the 4 screws, the 4 washers and the front wheel bracket assembly.



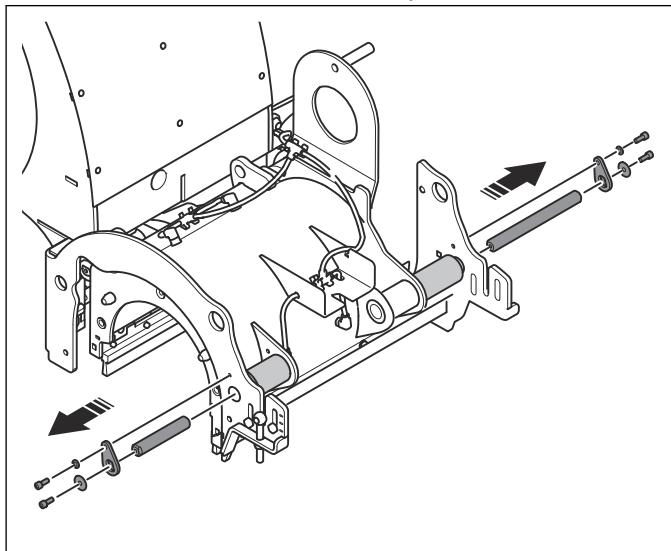
11. Disconnect the water hose.



12. Remove the 2 screws, the 3 washers and the cover on the 2 sides of the product.

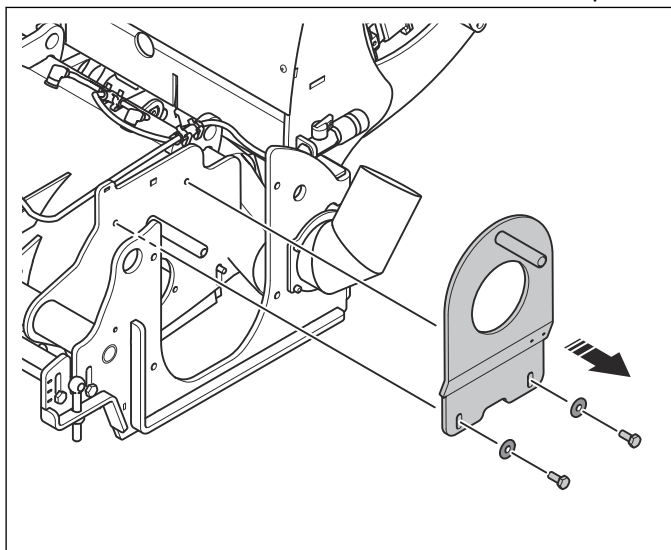


13. Remove the 2 screws, the 2 washers, the cover and the shaft on the 2 sides of the product.

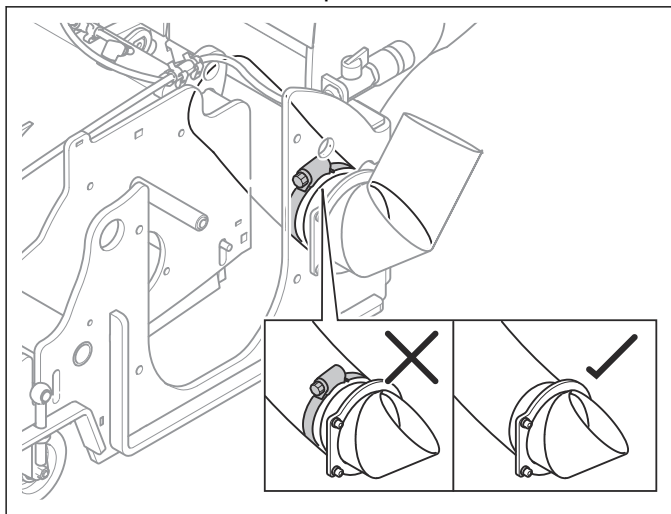


Note: Push the shafts out of the megi bushes with a hammer and a metal bar if it is necessary.

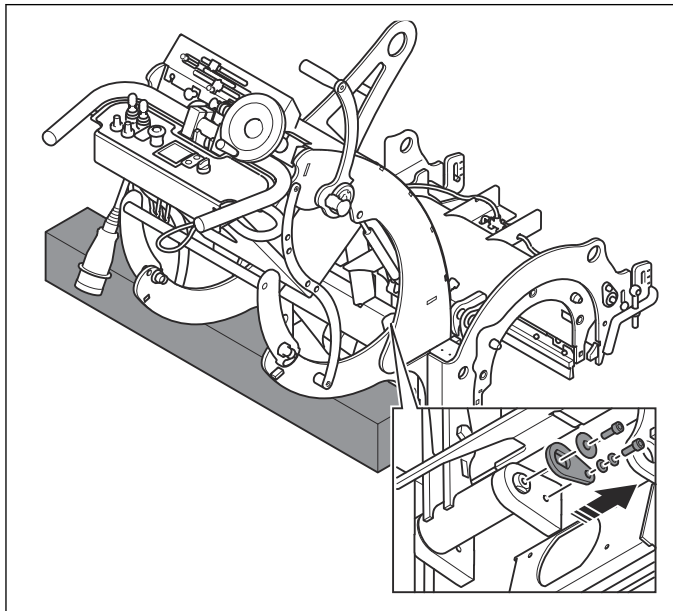
14. Remove the 2 screws, the 2 washers and the plate.



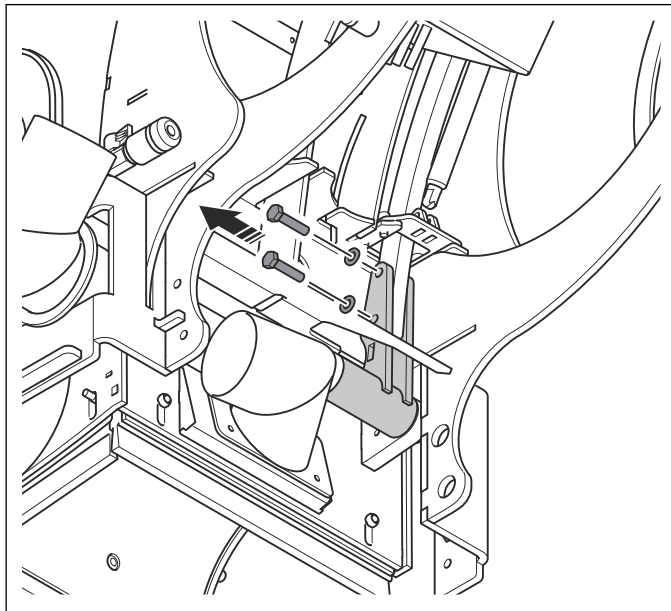
15. Remove the hose clamp and disconnect the hose.



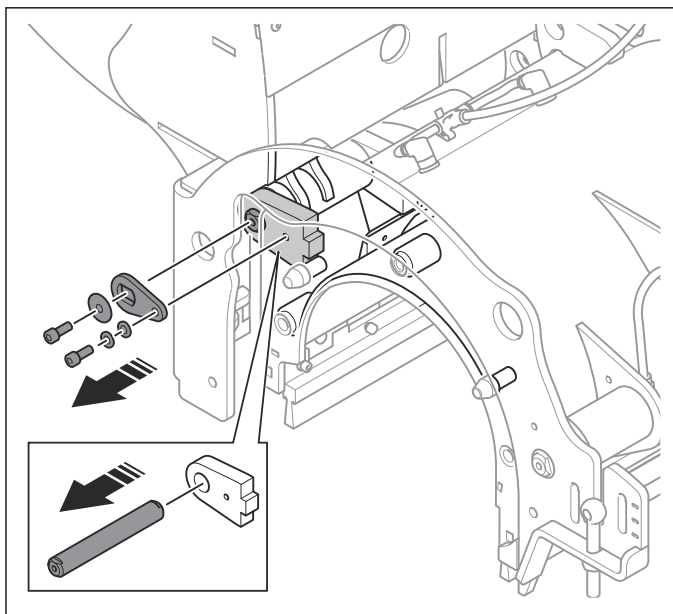
16. Remove the 2 screws, the 3 washers and the plate.



18. Remove the 2 screws and the 2 washers.

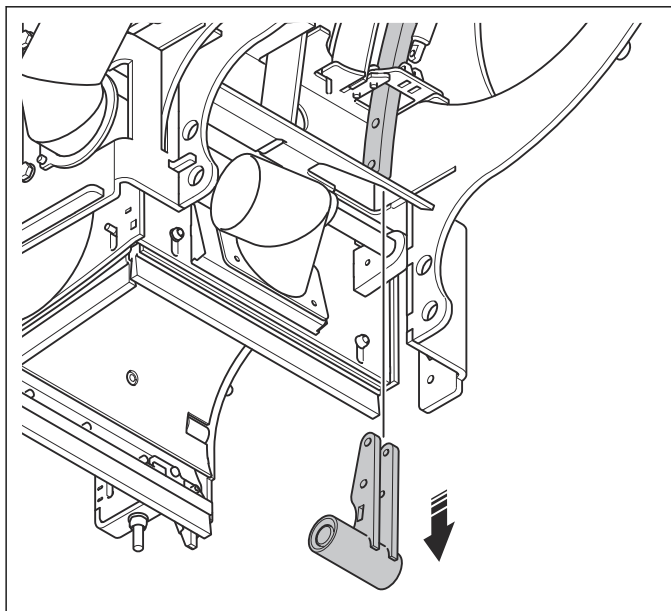


17. Remove the 2 screws, the 3 washers, the plate and the shaft.

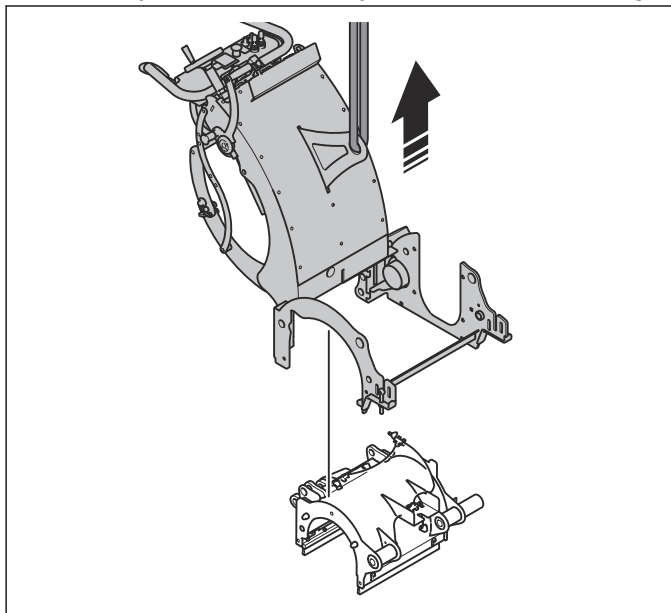


Note: Push the shaft out of the megi bushes with a hammer and a metal bar if it is necessary.

19. Remove the bracket.



20. Lift the product frame away from the drum housing.



21. Install the drum housing in the opposite sequence.

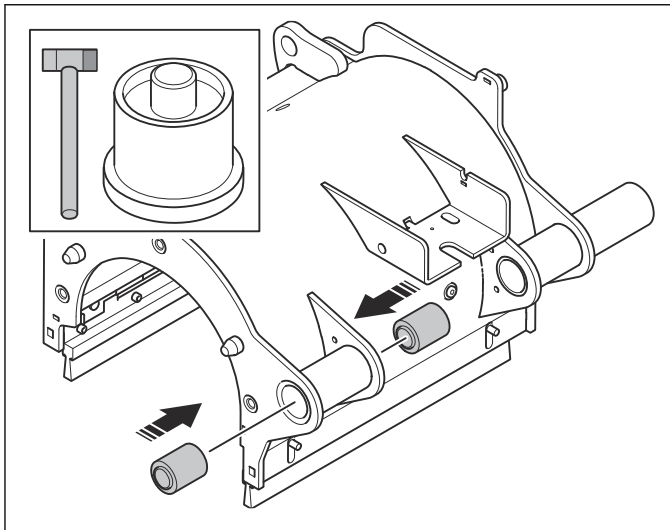
- a) Apply Molykote W2 Multipurpose grease to the hose outlet before you install the hose.
- b) Apply Loctite 243 to the screws that hold the shafts before you install them.

Install new megi bushes if you replace the drum housing. Refer to *To install new megi bushes on page 26*.

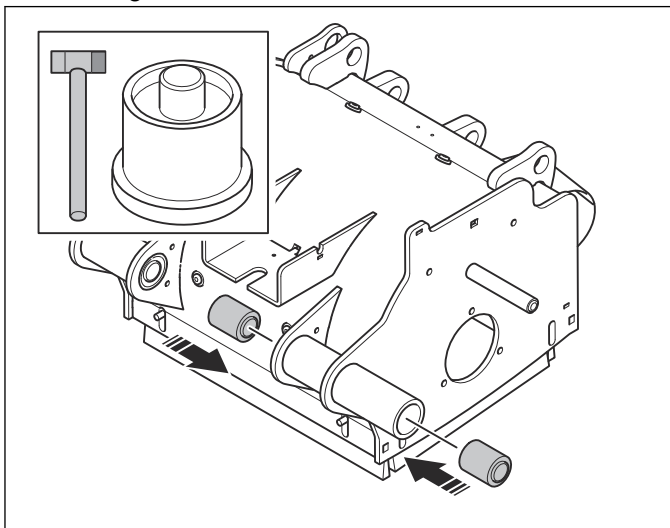
6.2.6 To install new megi bushes

If you replace the drum housing, it is necessary to install megi bushes in the new drum housing before you install it on the product.

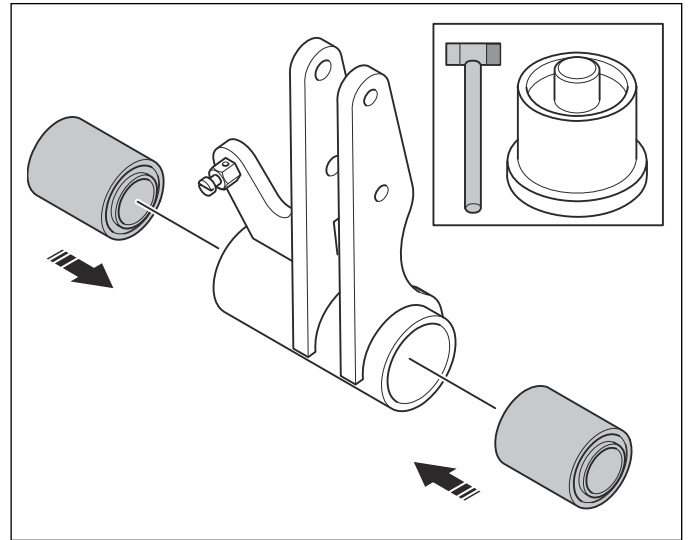
1. Use special tool E13857 and a rubber mallet to install 2 megi bushes in the right hinge on drum housing.



2. Use special tool E13857 and a rubber mallet to install 2 megi bushes in the left hinge on drum housing.

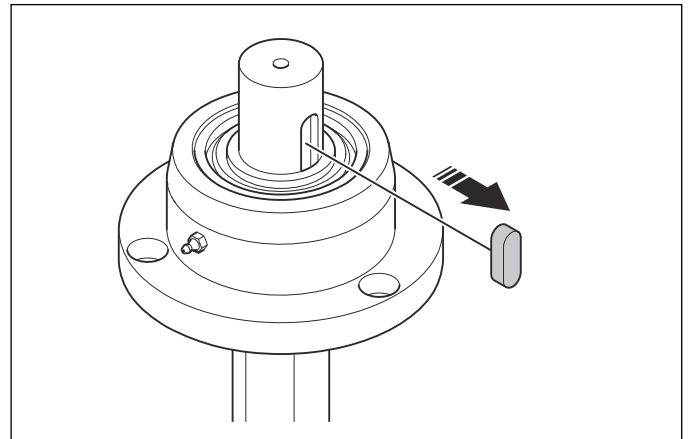


3. Use special tool E13857 and a rubber mallet to install 2 megi bushes in the bracket.

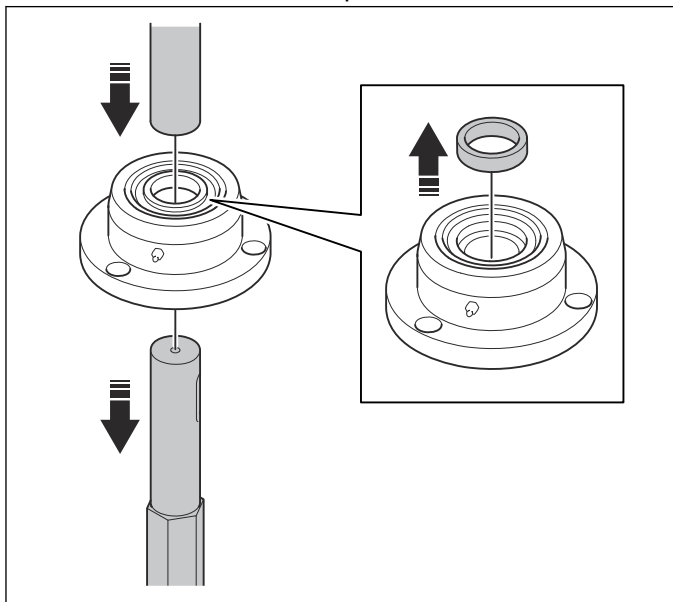


6.2.7 To remove the drum bearing kits

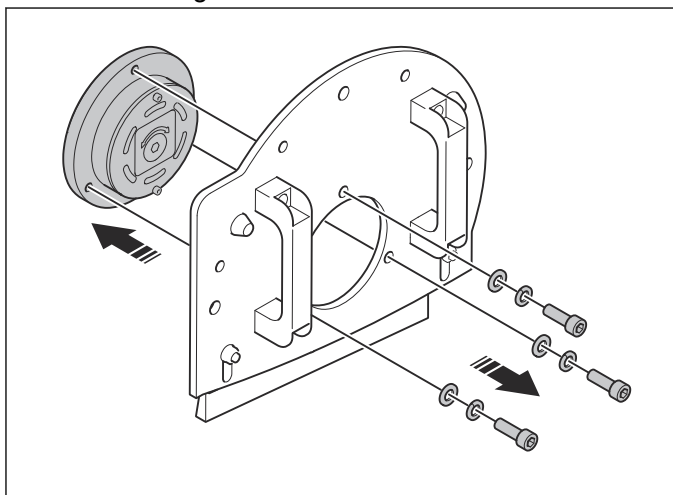
1. Remove the drum. Refer to *To remove the drum on page 18*.
2. Remove the lower pulley. Refer to *To remove and install the pulleys on page 17*.
3. Remove the drum shaft. Refer to *To remove and install the drum shaft on page 22*.
4. Remove the key.



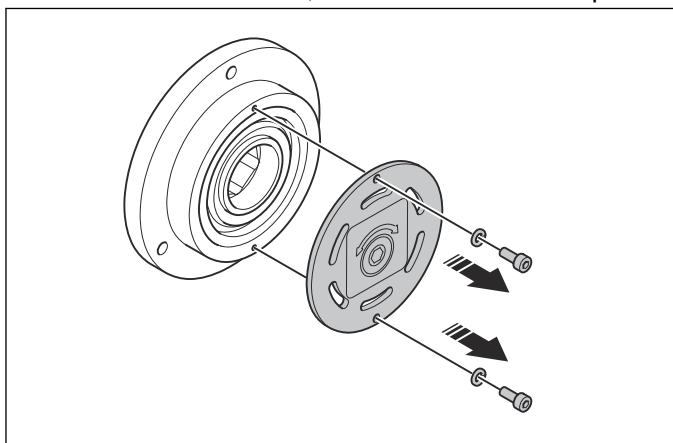
5. Remove the shaft with a press tool.



6. Remove the 3 screws, the 6 washers and the right drum bearing kit.



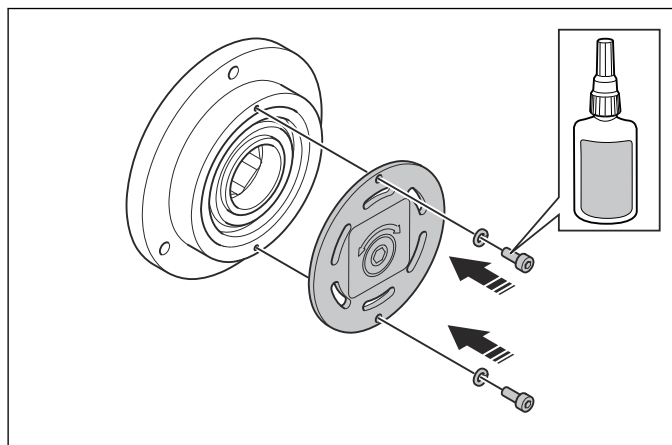
7. Remove the 2 screws, the 2 washers and the plate.



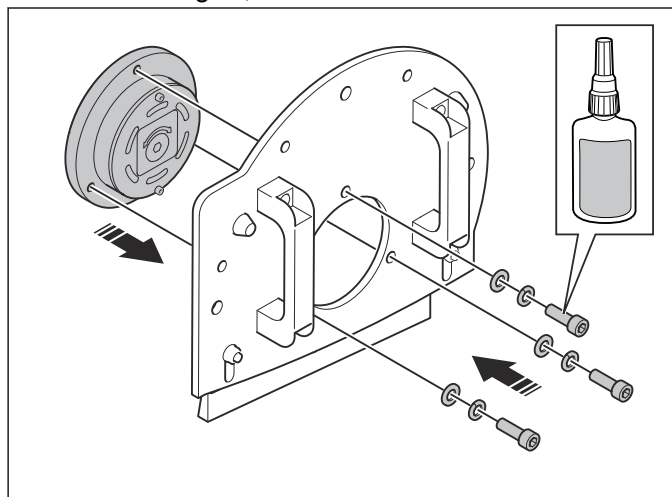
refer to *To assemble the right drum bearing kit on page 28* and *To assemble the left drum bearing kit on page 30*.

6.2.8.1 To install the right drum bearing kit

1. Apply Loctite 243 to the 2 screws. Install the plate the 2 washers and the 2 screws.



2. Apply Loctite 243 to the 3 screws. Install the right drum bearing kit, the 6 washers and the screws.

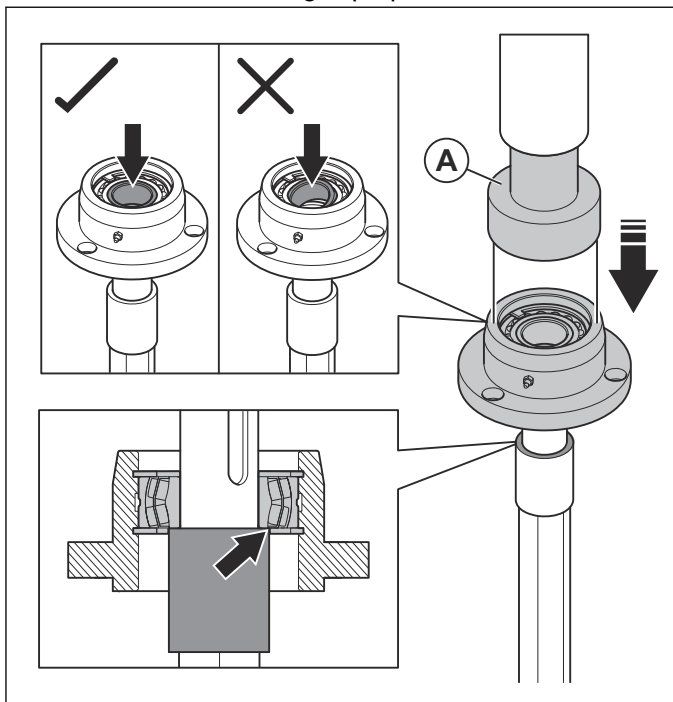


6.2.8 Drum bearing kits

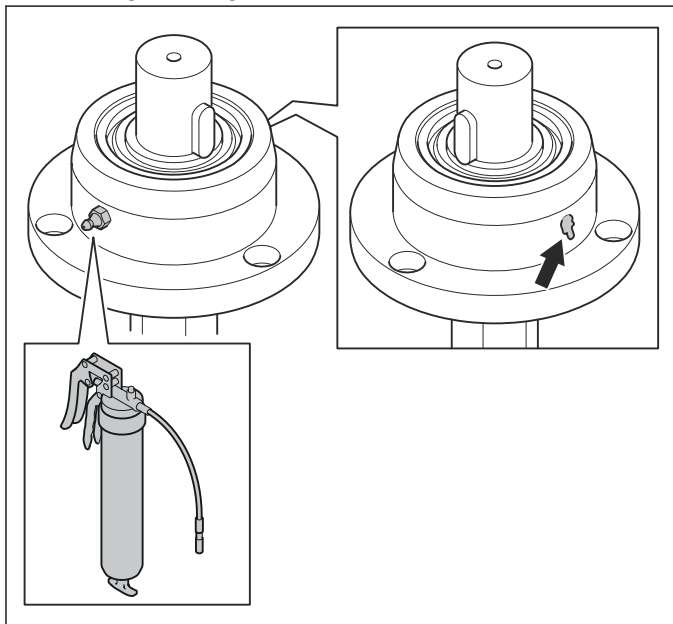
You can buy the drum bearings as a complete kits or in parts. We recommend to install the drum bearing kits as a complete kit. To install the drum bearing kit as complete kits, refer to *To install the right drum bearing kit on page 27* and *To install the left drum bearing kit on page 28*. To install the drum bearing kits in parts,

6.2.8.2 To install the left drum bearing kit

1. Put the left drum bearing kit on the shaft, and make sure that the inner ring is perpendicular to the shaft.

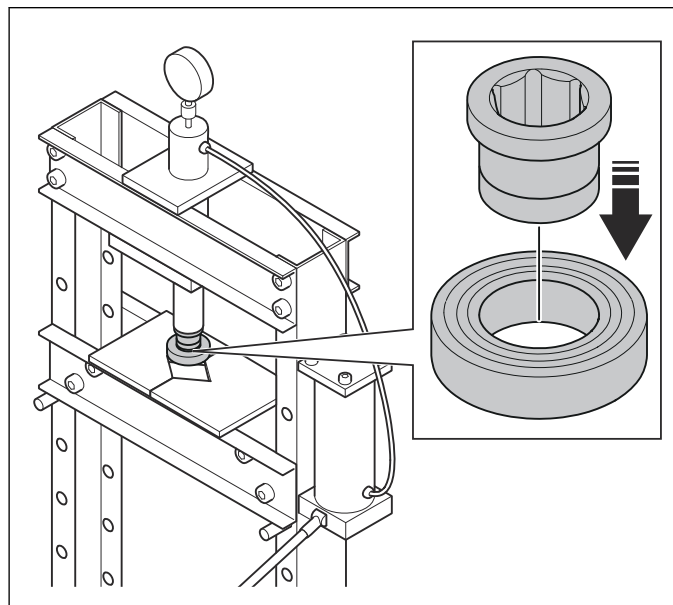


2. Install the left drum bearing kit on the shaft with a press tool and a mandrel E20207(A). Press with a maximum force of 25 kN.
3. Push grease through the grease nipple until grease comes out of the hole on the opposite side of the bearing housing.

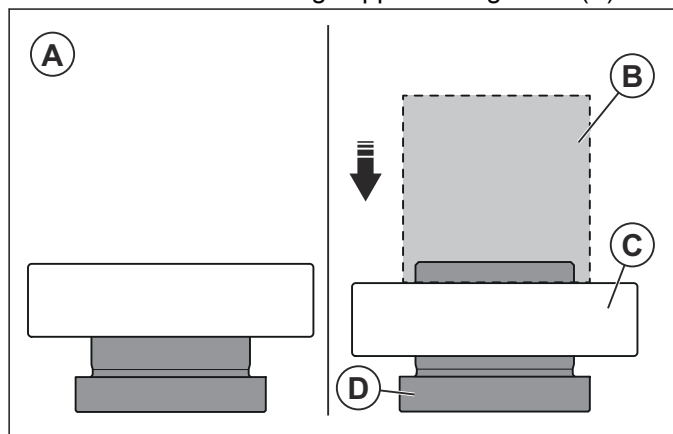


6.2.8.3 To assemble the right drum bearing kit

1. Put the bearing on a flat surface. Use a press tool to install the driving support in the bearing. Use a maximum force of 25 kN.



2. Rotate the bearing assembly and put it on a flat surface with the driving support facing down (A).

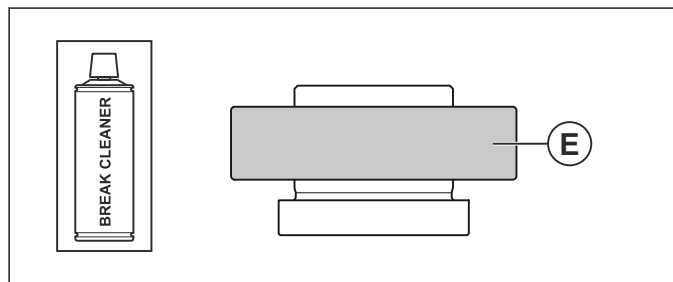


3. Use mandrel E20213 (B) and a press tool to install the bearing (C) until it touches the collar (D) on the driving support. Use a maximum force of 25 kN.

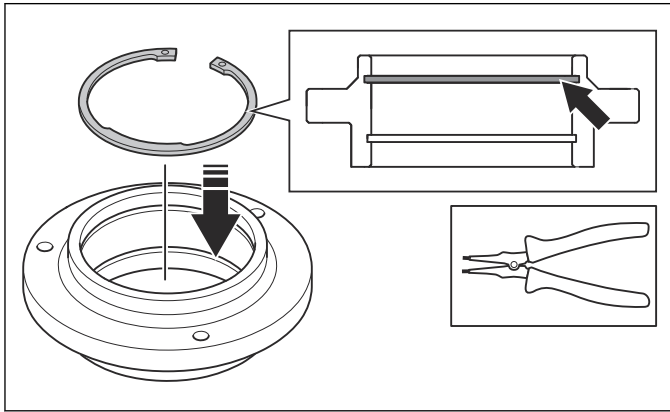


CAUTION: Only press the inner ring of the bearing.

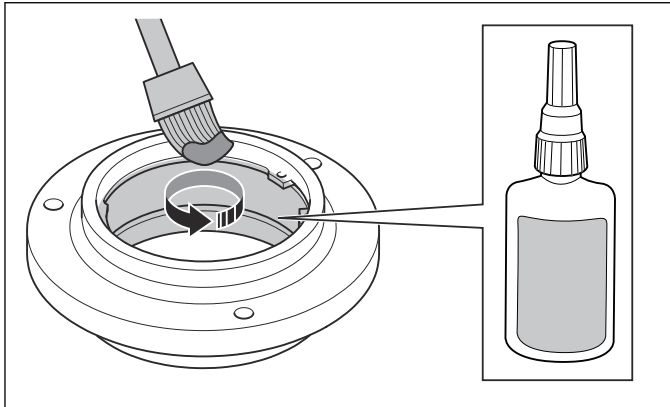
4. Clean the bearing (E) with Motip brake cleaner and a soft cloth.



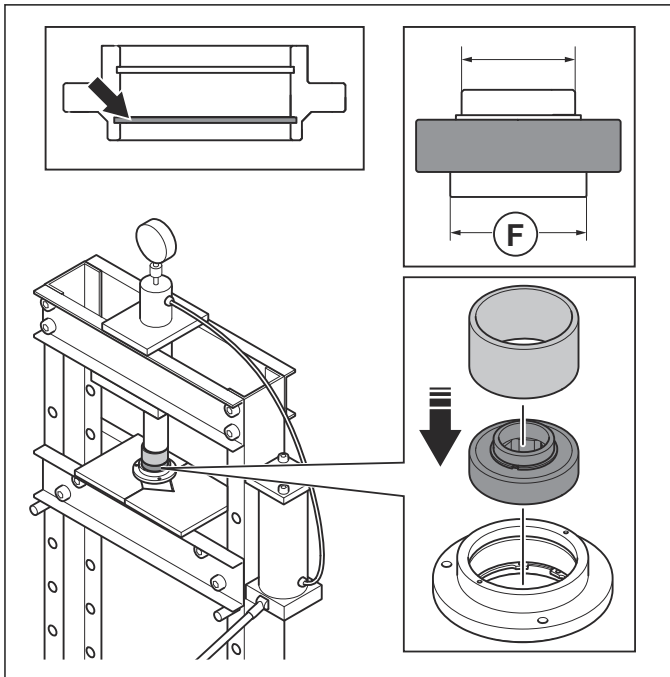
5. Install the snap ring in the groove in the bearing housing.



6. Apply Loctite 641 in the bearing housing.

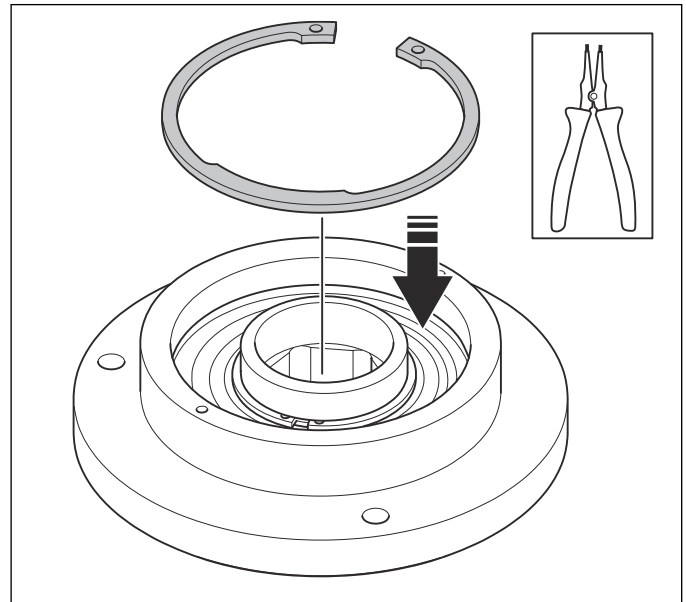


7. Install the bearing assembly in the bearing housing with a press tool and mandrel 546 26 97-01. Make sure that the side of the driving support with the collar (F) points to the bearing housing. Press with a maximum force of 25 kN until the bearing touches the snap ring.

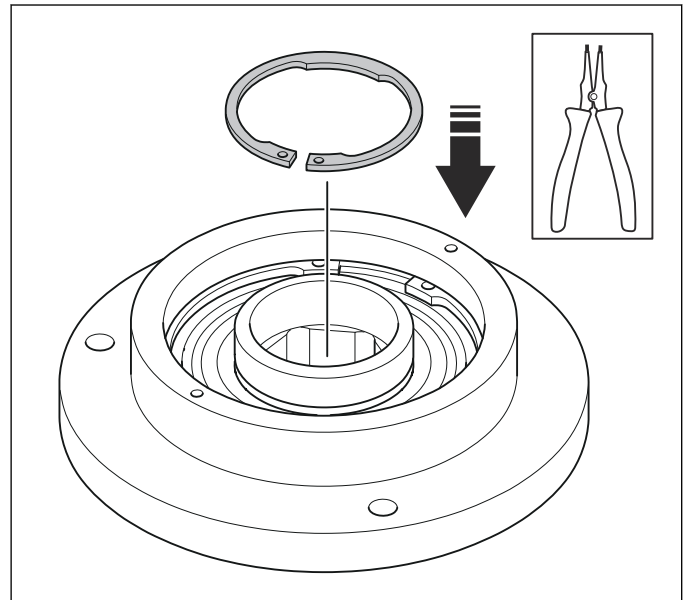


CAUTION: Only press the outer ring of the bearing.

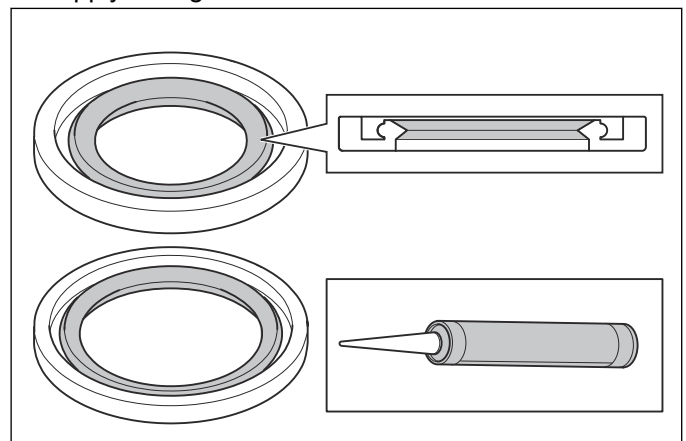
8. Install the outer snap ring.



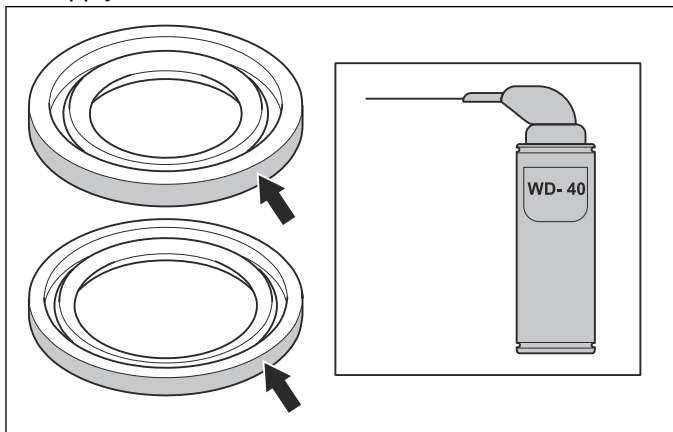
9. Install the inner snap ring.



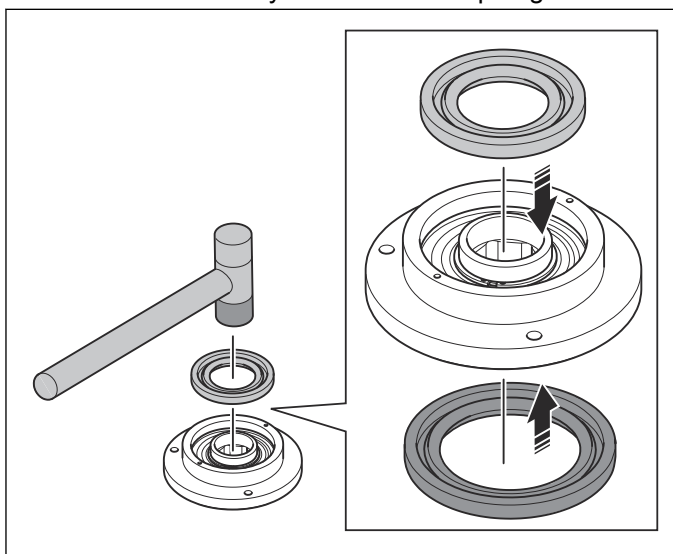
10. Apply SKF grease to the inner surface of the seals.



11. Apply WD-40 to the outer surface of the seals.



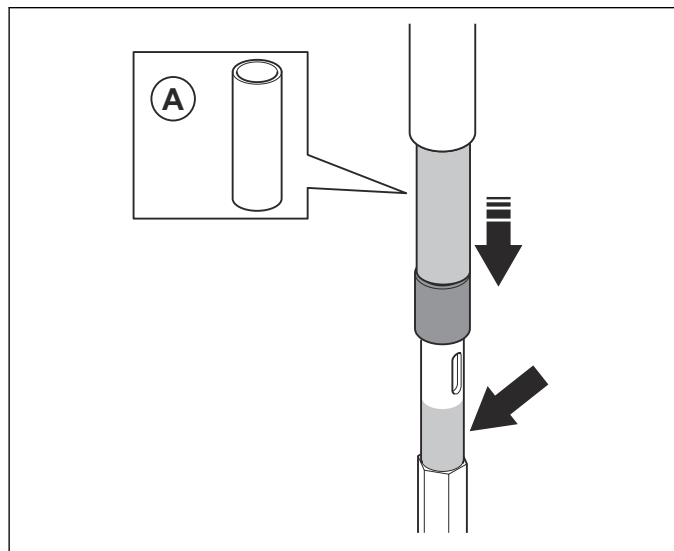
12. Install the seal with a nylon hammer. Use mandrel 546 26 97-01 to make sure that the seals are installed all the way down to the snap rings.



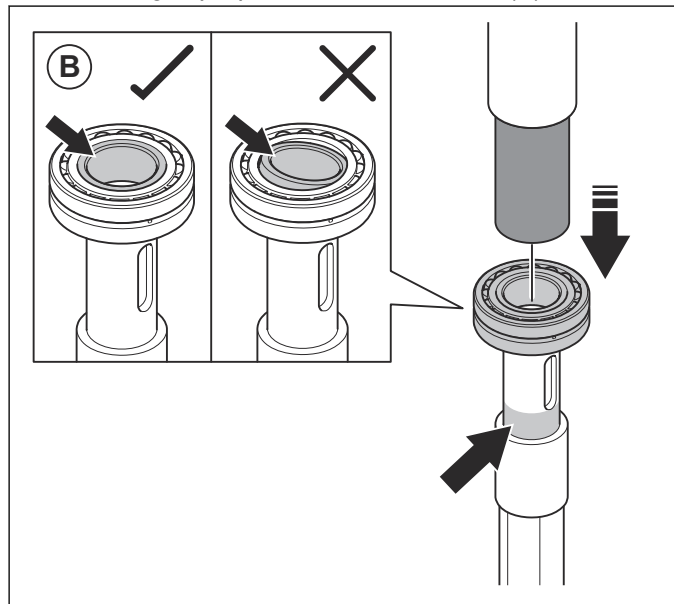
CAUTION: Make sure that you install the seals in the correct direction.

6.2.8.4 To assemble the left drum bearing kit

1. Install the large spacer with a press tool and mandrel 546 26 94-01 (A). Use a maximum force of 25 kN.



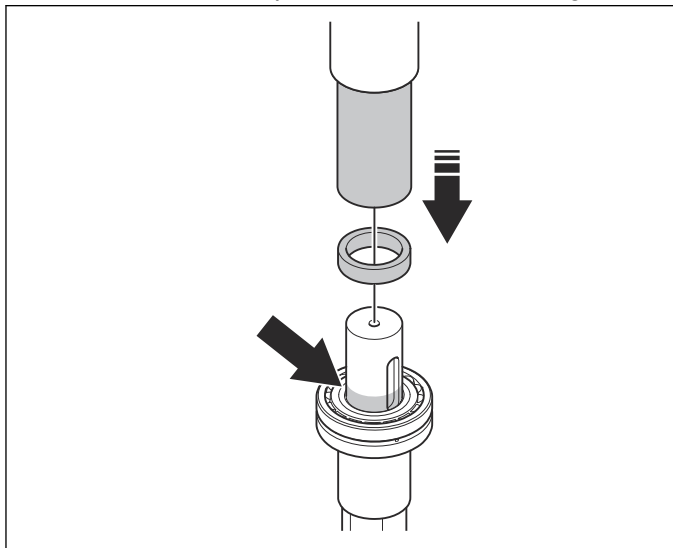
2. Put the bearing on the shaft, and make sure that the inner ring is perpendicular to the shaft (B).



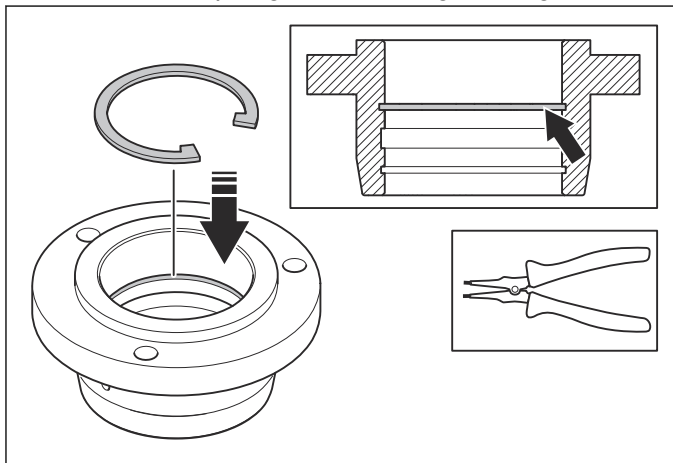
CAUTION: Only press the inner ring of the bearing.

3. Install the bearing with a press tool and mandrel 546 26 94-01. Press with a maximum force of 25 kN until the bearing touches the large spacer.

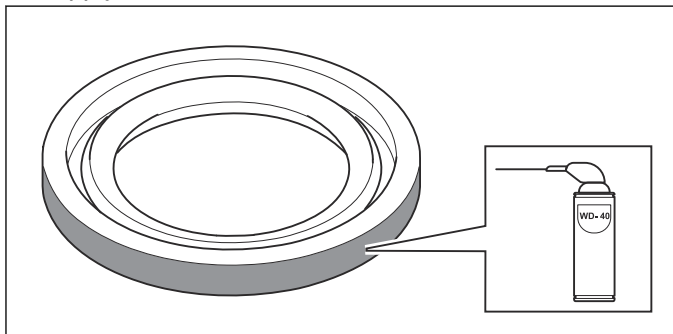
4. Use a press tool and mandrel 546 26 94-01 to install the small spacer. Press with a maximum force of 25 kN until the small spacer touches the bearing.



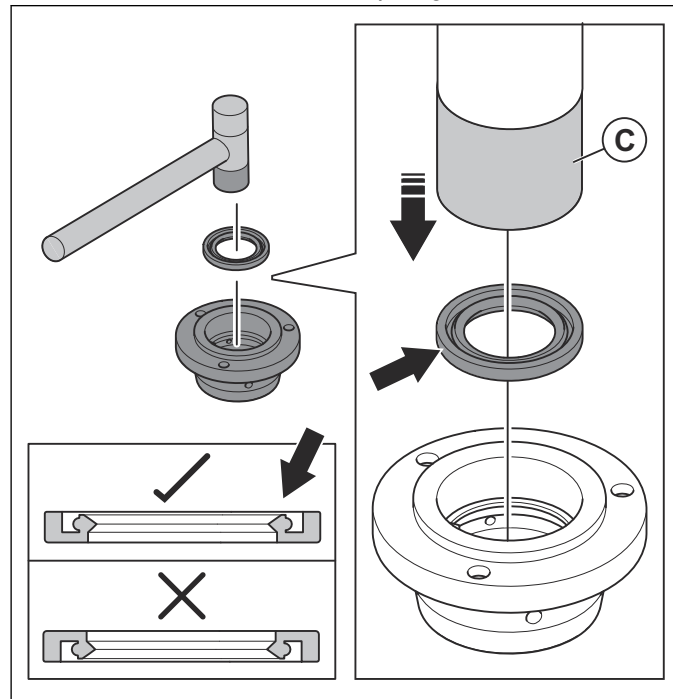
5. Install the snap ring in the bearing housing.



6. Apply DM-40 to the outer surface of the seal.

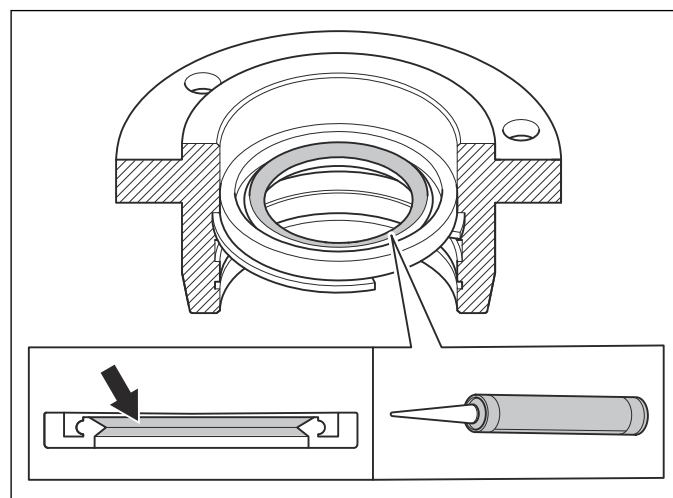


7. Install the seal in the bearing housing with a nylon hammer and mandrel 546 269 50-1 (C). Push the seal until it touches the snap ring.

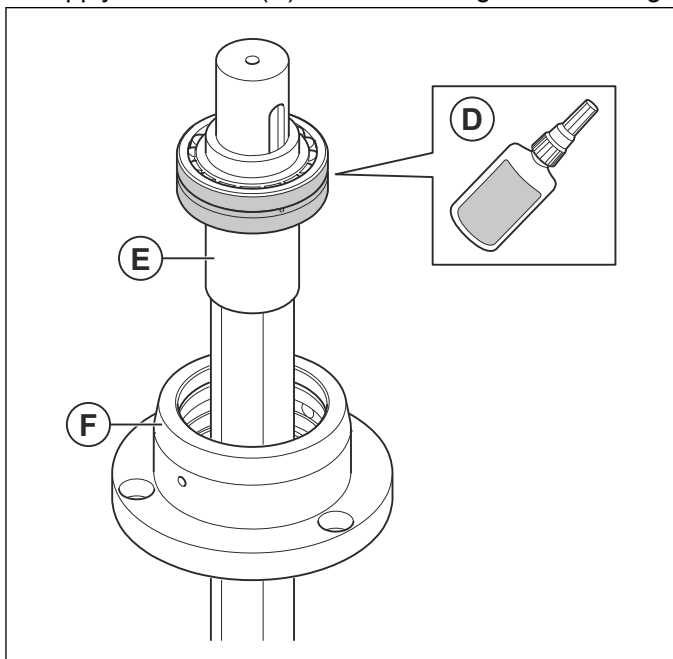


CAUTION: Make sure that you install the seal in the correct direction.

8. Apply SKF bearing grease to the inner surface of the seal.

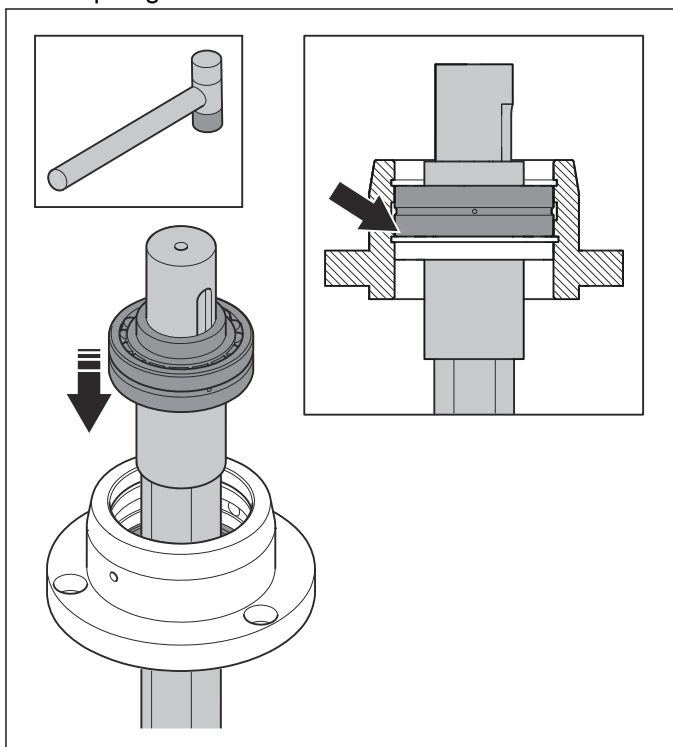


9. Clean the bearing with MOTIP brake cleaner and apply Loctite 641 (D) to the outer ring of the bearing.



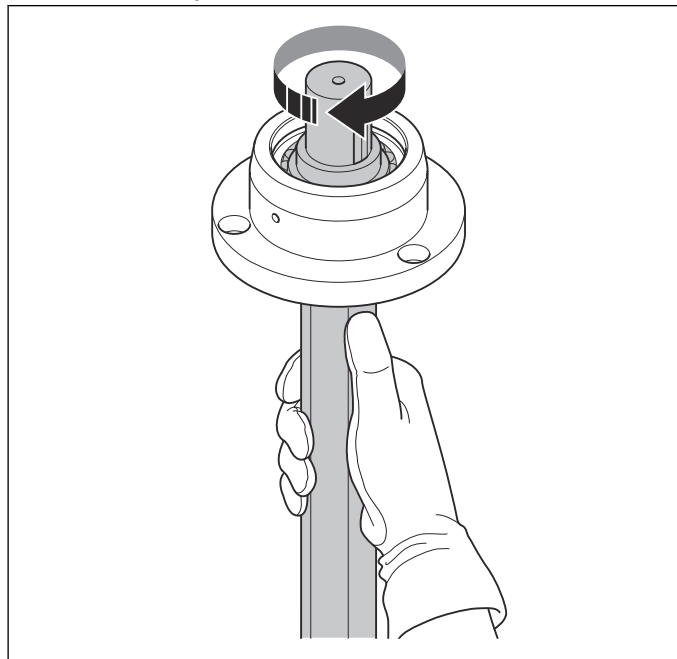
10. Install the shaft with the bearing in the bearing housing, with the large spacer (E) in the direction of the bearing housing (F).

11. Install the shaft with the bearing into the bearing housing with a nylon hammer and mandrel 546 269 50-1. Push the shaft until the bearing touches the snap ring.

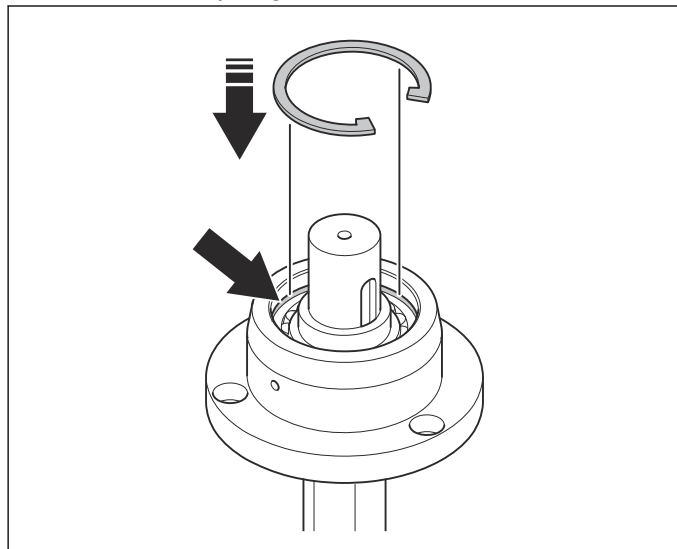


CAUTION: Make sure that the mandrel only touches the outer ring of the bearing.

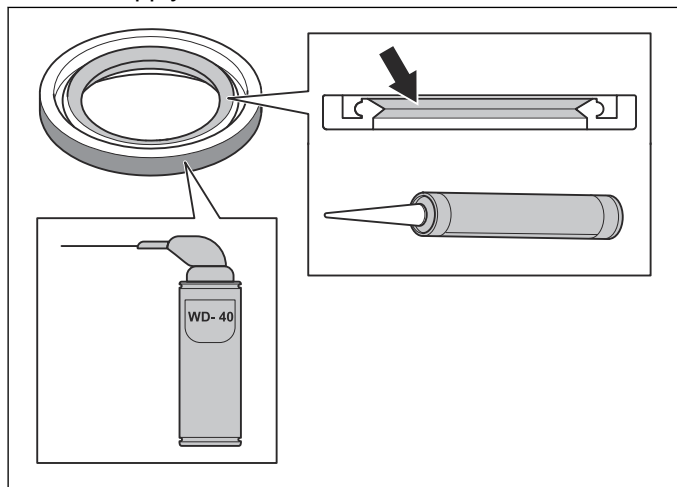
12. Rotate the shaft by hand and make sure that it rotates freely.



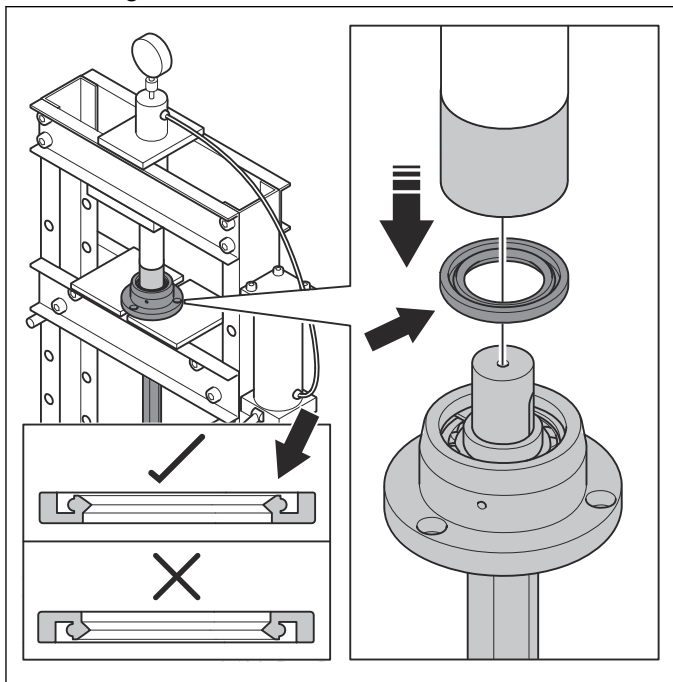
13. Install the snap ring.



14. Apply grease to the inner surface of the seal. Apply WD-40 to the outer surface of the seal.

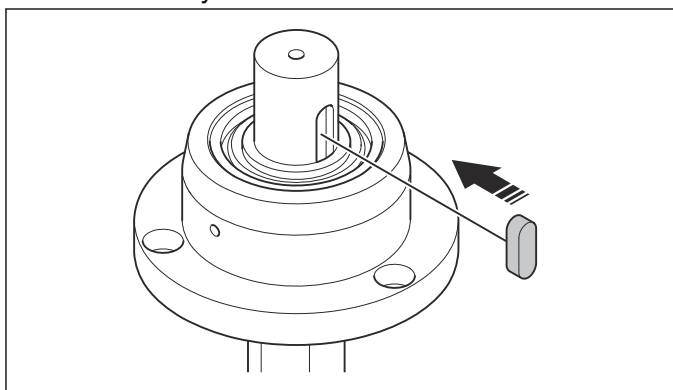


15. Install the seal in the bearing housing with a press tool and mandrel 546 269 50-1. Push with a maximum force of 25 kN until the seal touches the bearing.

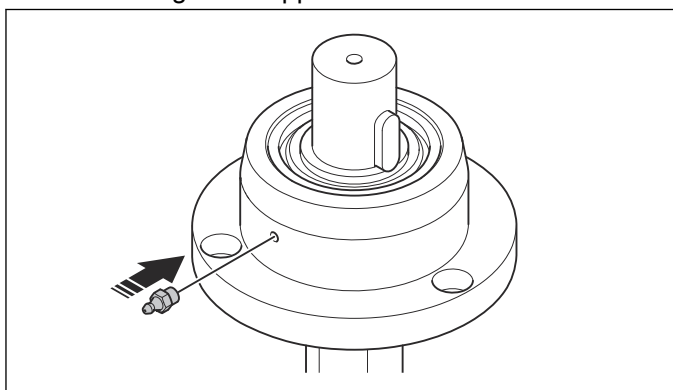


CAUTION: Make sure that you install the seal in the correct direction.

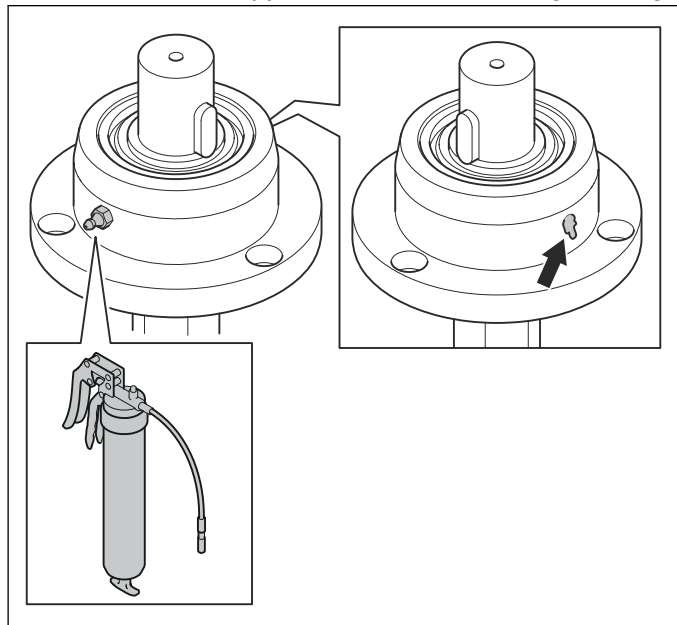
16. Install the key.



17. Install the grease nipple.



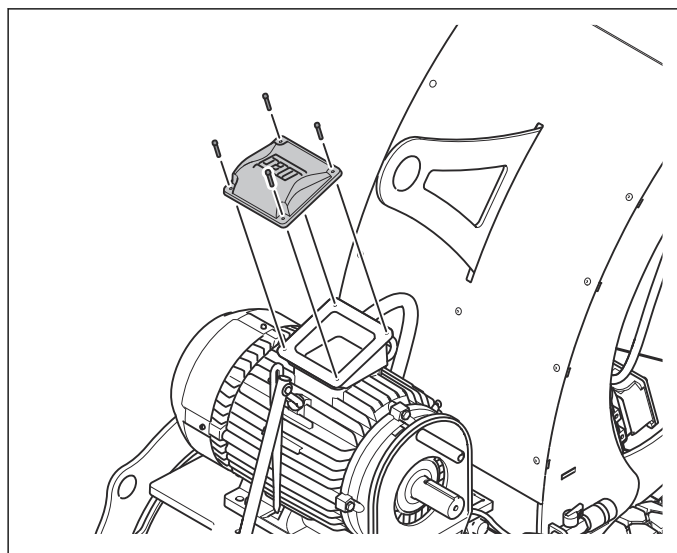
18. Push 6 pumps of SKF bearing grease through the grease nipple. Make sure that grease comes out of the hole on the opposite side of the bearing housing.



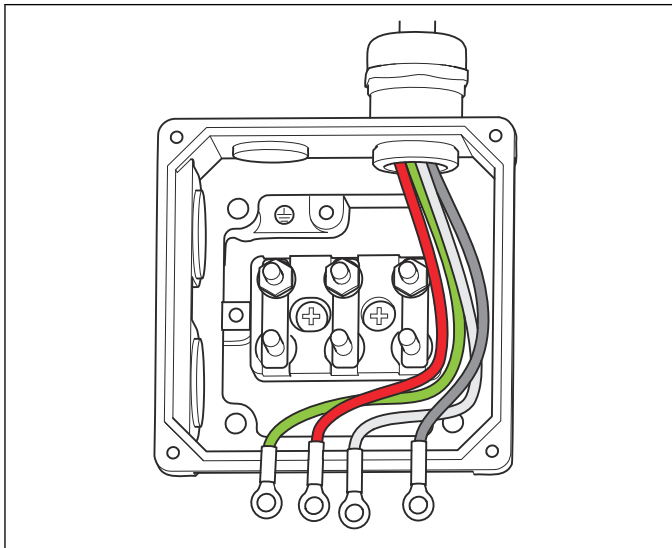
6.3 Motor

6.3.1 To remove the motor

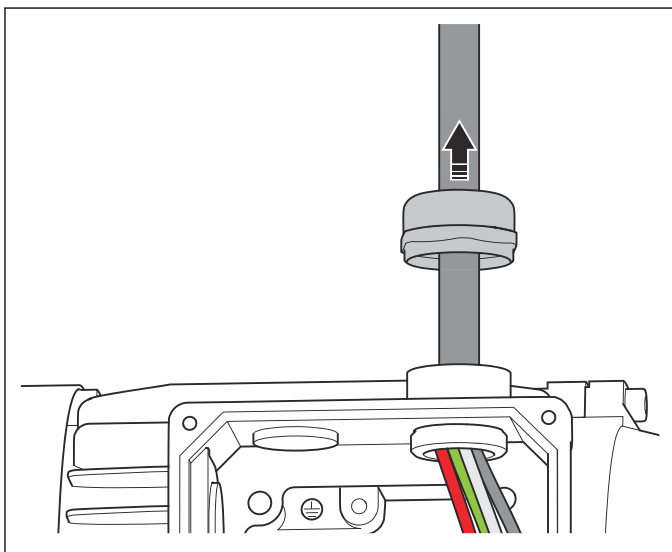
1. Remove the V-belt. Refer to *To remove and install the V-belt on page 15*.
2. Remove the upper pulley. Refer to *To remove and install the pulleys on page 17*.
3. Remove the 4 screws and the cover for the electrical box.



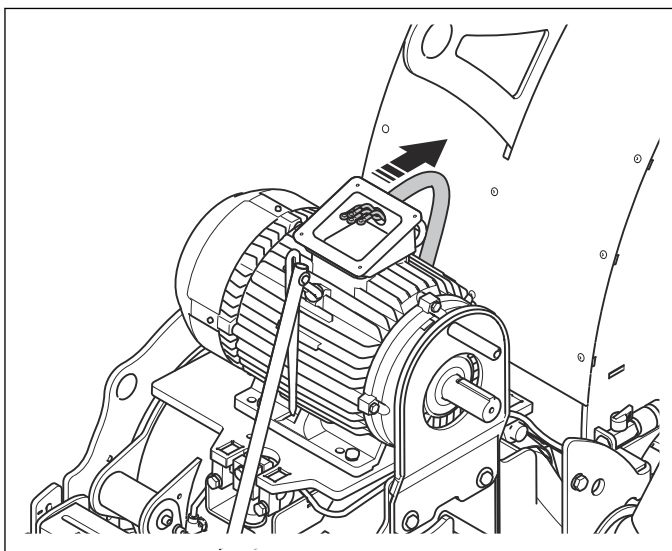
4. Disconnect the wires.



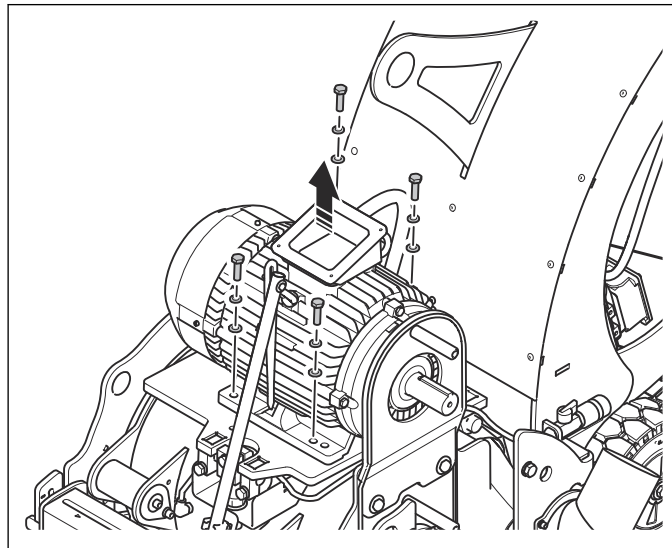
5. Disconnect the cable.



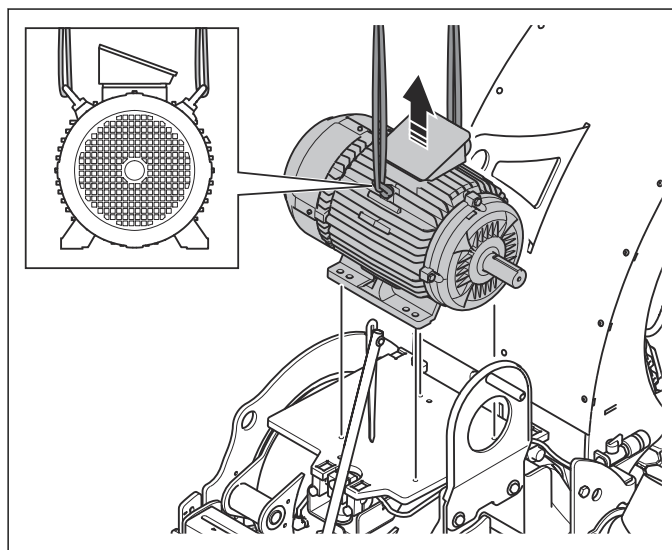
6. Remove the cable.



7. Remove the 4 screws and the 8 washers.

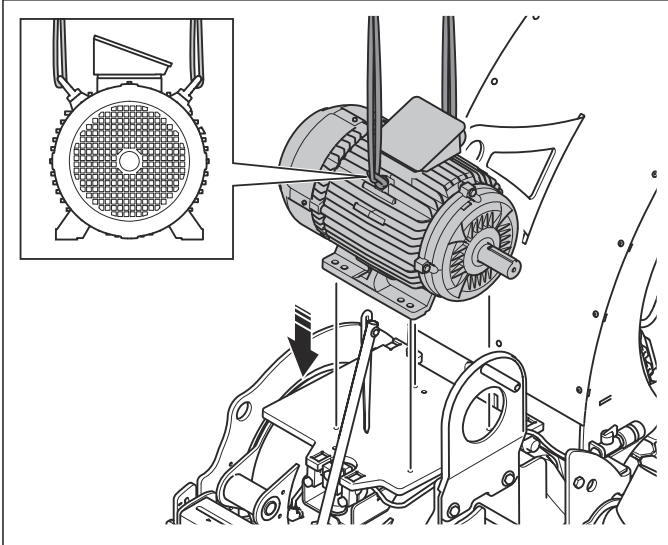


8. Attach lifting equipment to the lifting eyes and remove the motor.

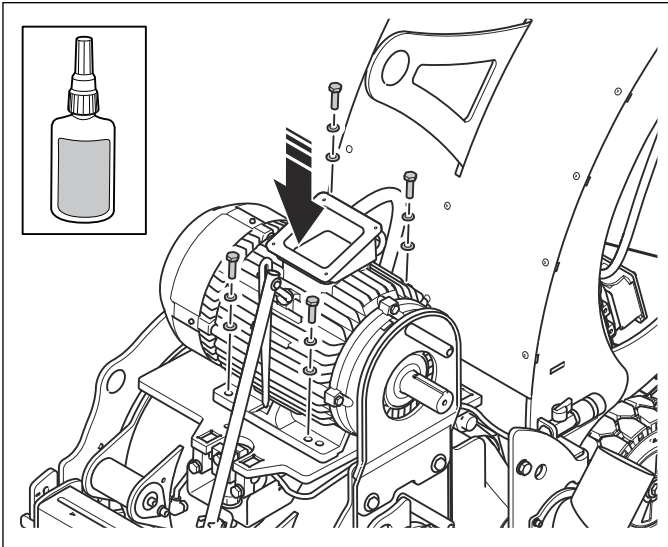


6.3.2 To install the motor

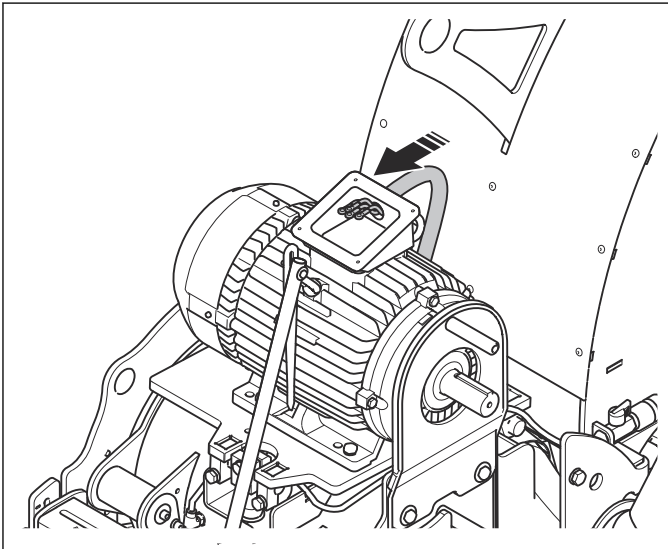
1. Attach lifting equipment to the lifting eyes and lift the motor on to the product.



2. Apply Loctite 243 to the 4 screws. Install the motor to the motor plate with the 8 washers and the 4 screws.

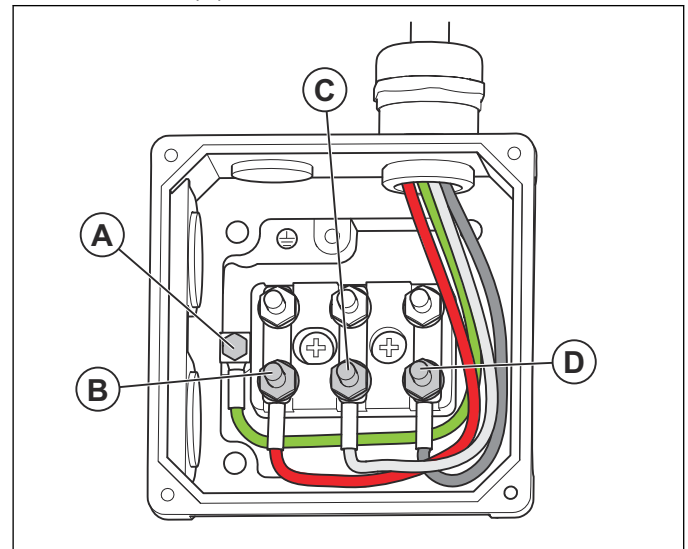


3. Install the cable in the electrical box.



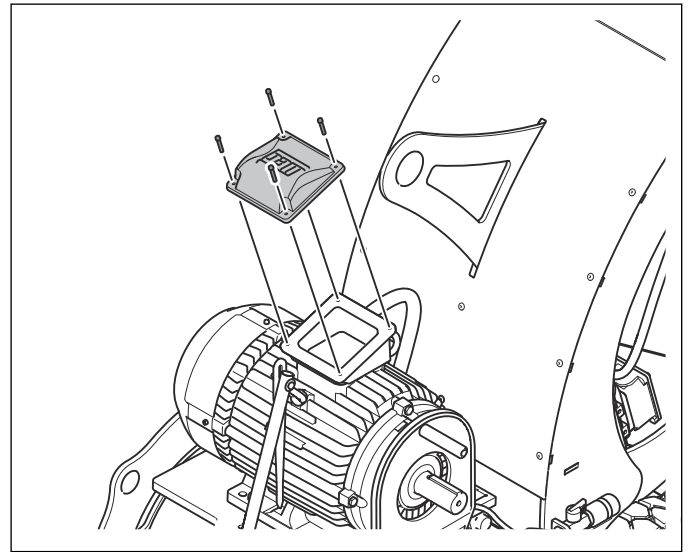
4. Install the wires:

- a) Install the ground wire to the first terminal from the left (A).



- b) Install the red wire to the second terminal from the left (B).
- c) Install the beige wire to the third terminal from the left (C).
- d) Install the black wire to the fourth terminal from the left (D).

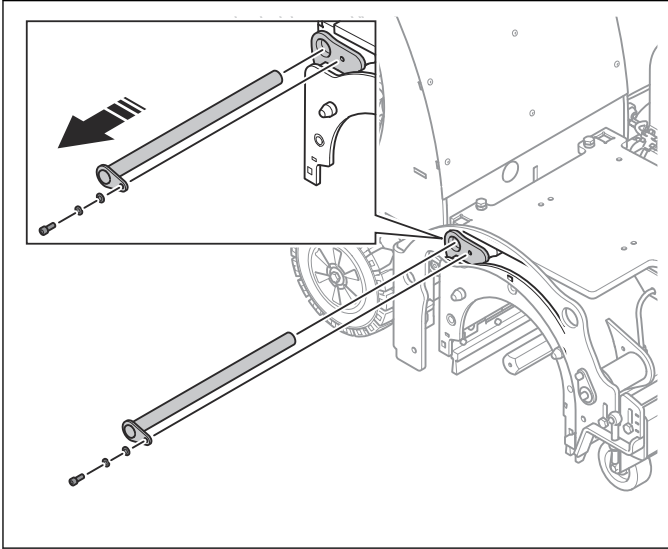
5. Install the cover to the electrical box with the 4 screws.



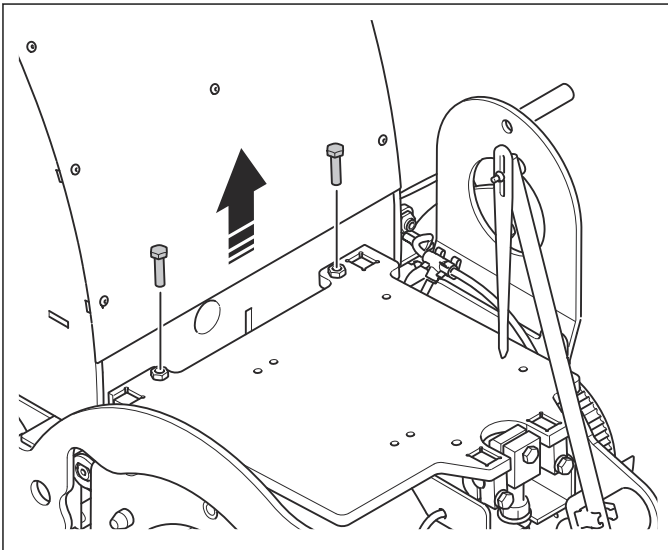
6.3.3 To remove the motor plate

1. Remove the V-belt. Refer to *To remove and install the V-belt on page 15*.
2. Remove the upper pulley. Refer to *To remove and install the pulleys on page 17*.
3. Remove the motor. Refer to *To remove the motor on page 33*.

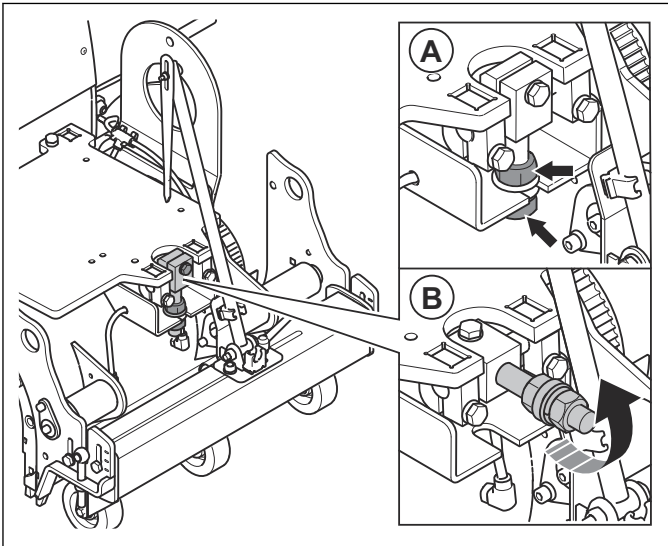
4. Remove the screw and the 2 washers and the shaft.



5. Remove the 2 screws with the lock nuts.

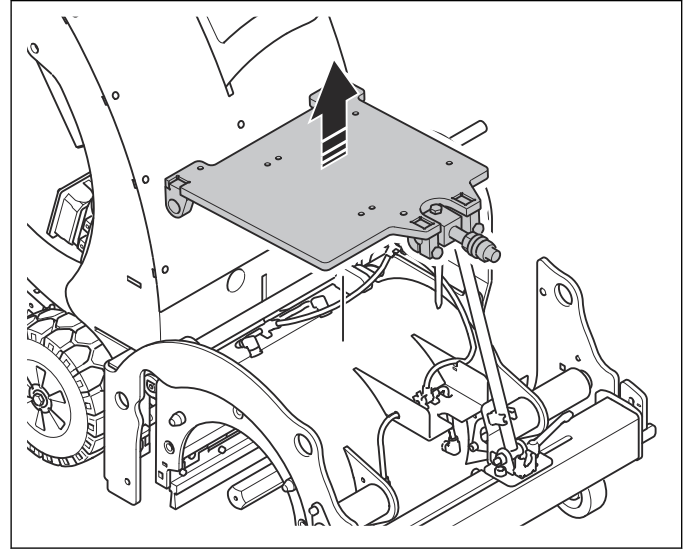


6. Loosen the 2 nuts and the screw (A).



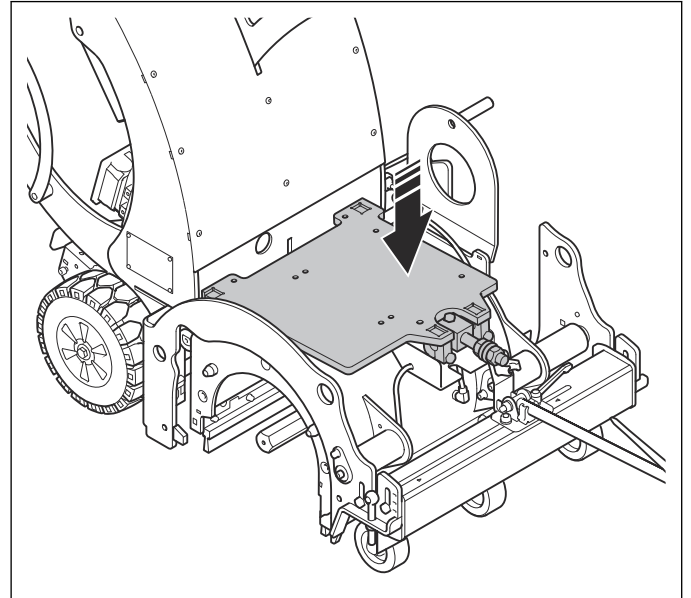
7. Fold out the V-belt tensioner (B).

8. Remove the motor plate.

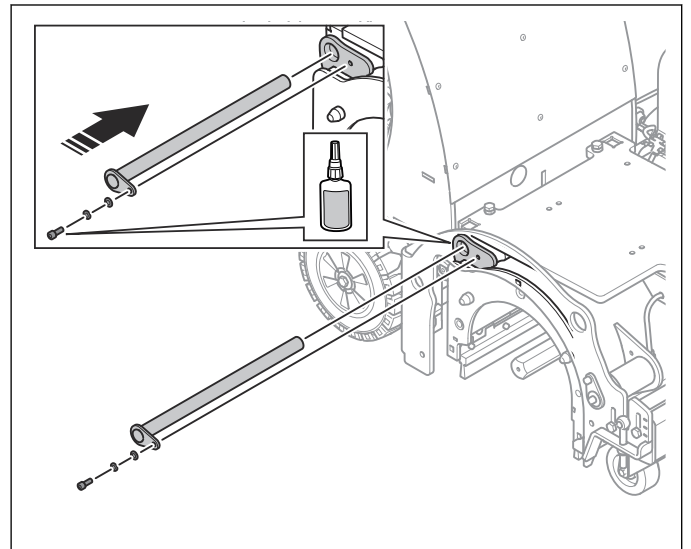


6.3.4 To install the motor plate

1. Put the motor plate on the product.

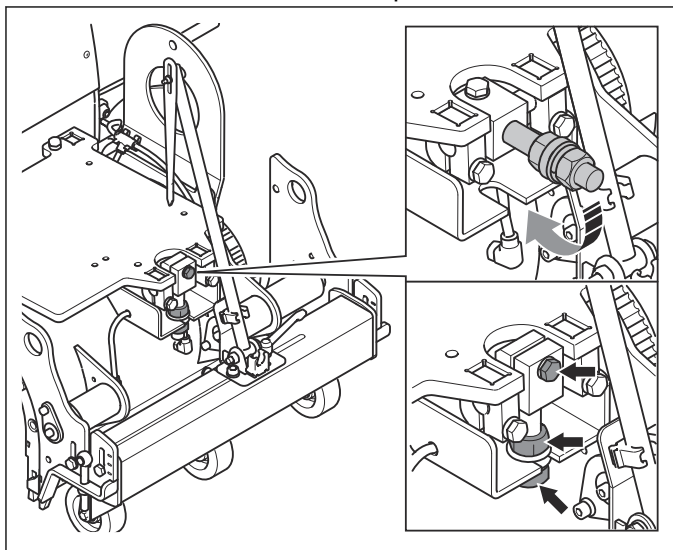


2. Apply Loctite 243 to the screw. Install the shaft, the 2 washers and the screw.

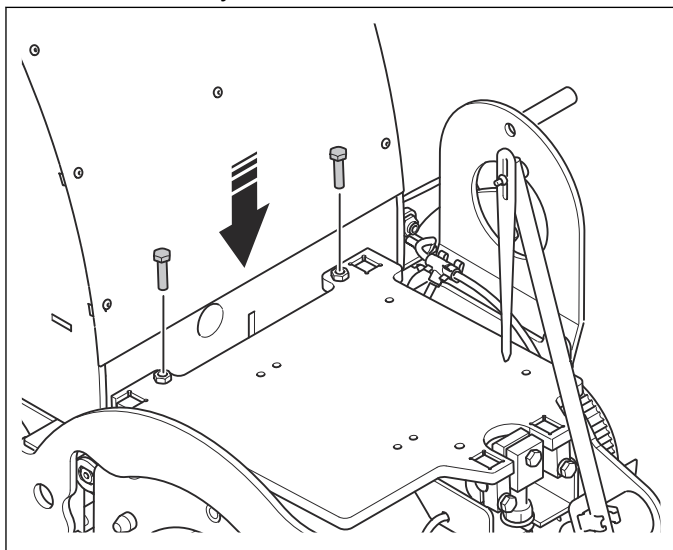


Note: Use a rubber mallet to install the shaft if it is necessary.

3. Install the V-belt tensioner in the slot on the motor plate. Make sure that 1 nut and 1 washer is placed above the motor plate. Make sure that 2 washers and 1 nut is below the motor plate.

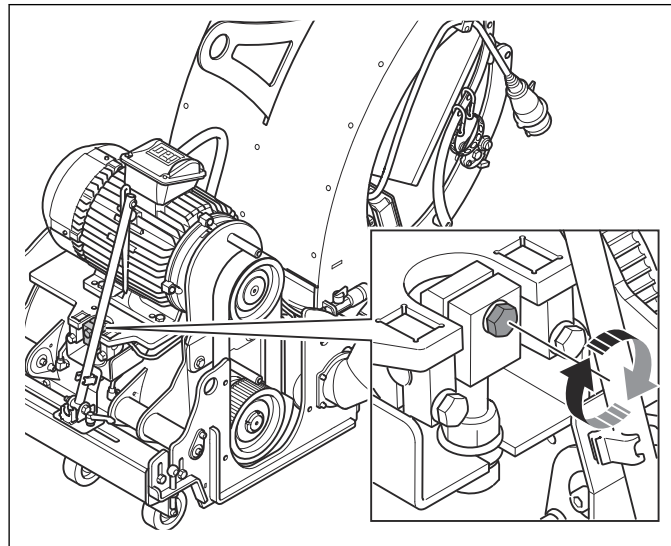


4. Install the 2 screws with the lock nuts. Do not tighten the screws fully.

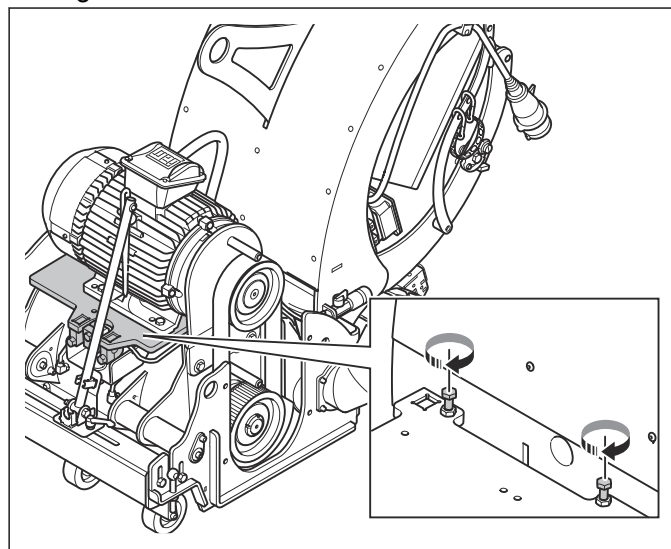


5. Install the motor. Refer to *To install the motor on page 35*.
6. Install the pulleys. Refer to *To remove and install the pulleys on page 17*.
7. Install the V-belt. Refer to *To remove and install the V-belt on page 15*.
8. Adjust the V-belt tension. Refer to *To adjust the V-belt tension on page 17*.

9. Tighten the screw.



10. Tighten the 2 screws.

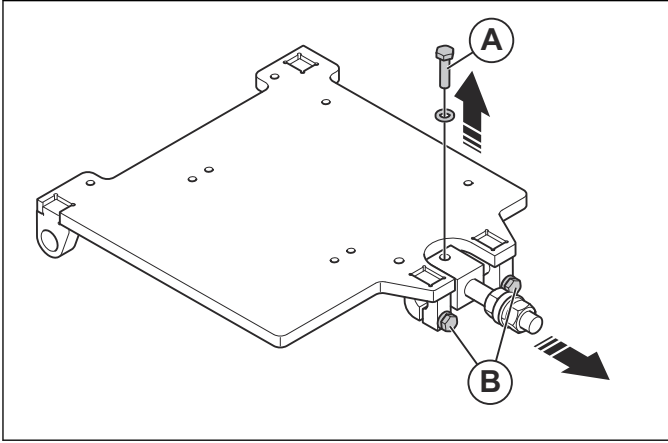


11. Lock the screws with the 2 lock nuts. Tighten the lock nuts to the correct torque, refer to *Tightening torques on page 5*

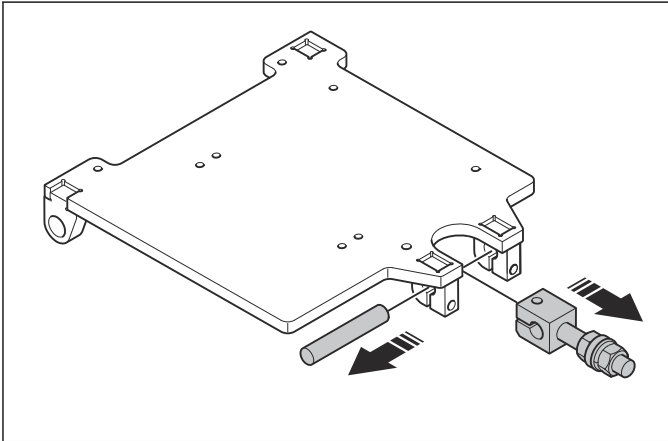
6.3.5 To disassemble and assemble the motor plate

1. Remove the motor. Refer to *To remove the drum on page 18*.
2. Remove the motor plate. Refer to *To remove the motor plate on page 35*.

3. Remove the screw and the washer (A). Loosen the 2 screws (B).



4. Remove the shaft and the V-belt tensioner.

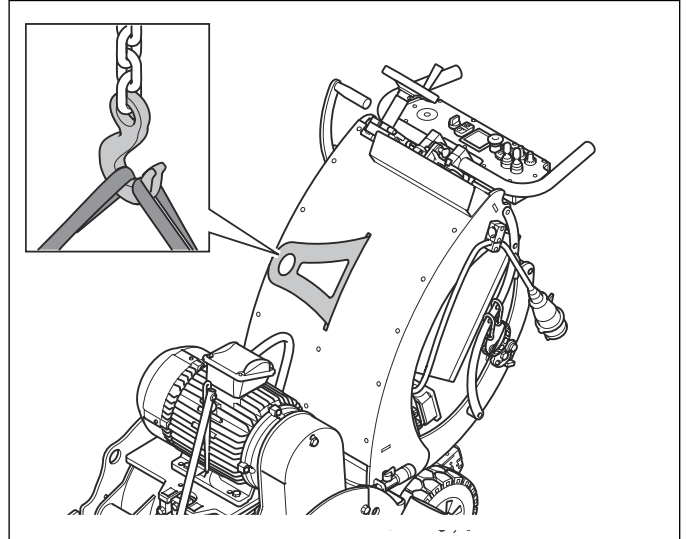


5. Assemble the motor plate in the opposite sequence. Apply Loctite 243 to the screw before you install it.

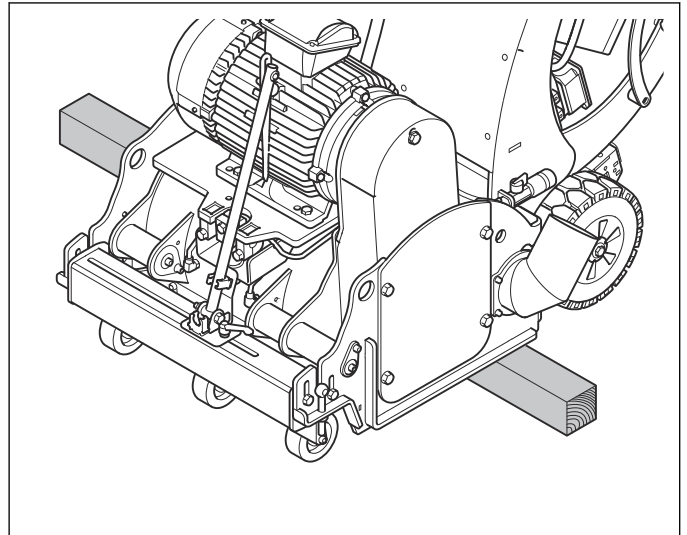
6.4 Drive system

6.4.1 To remove the drive system assemblies

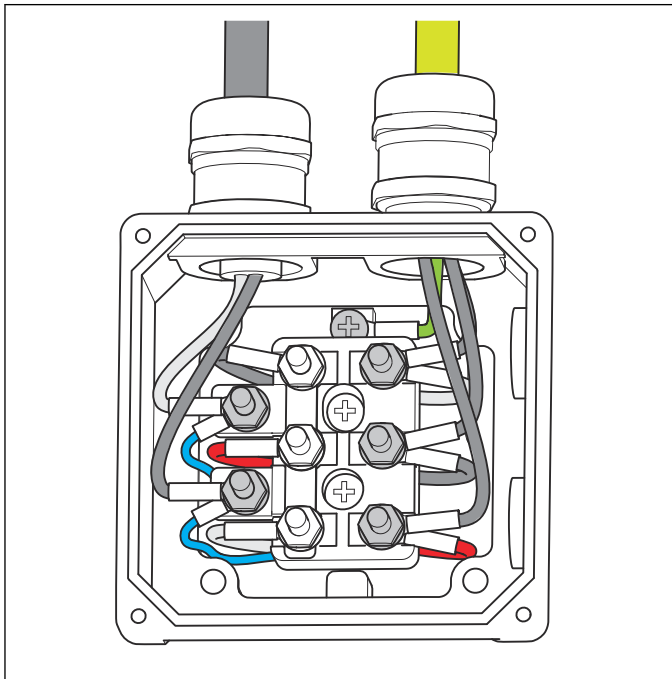
1. Lift the product.



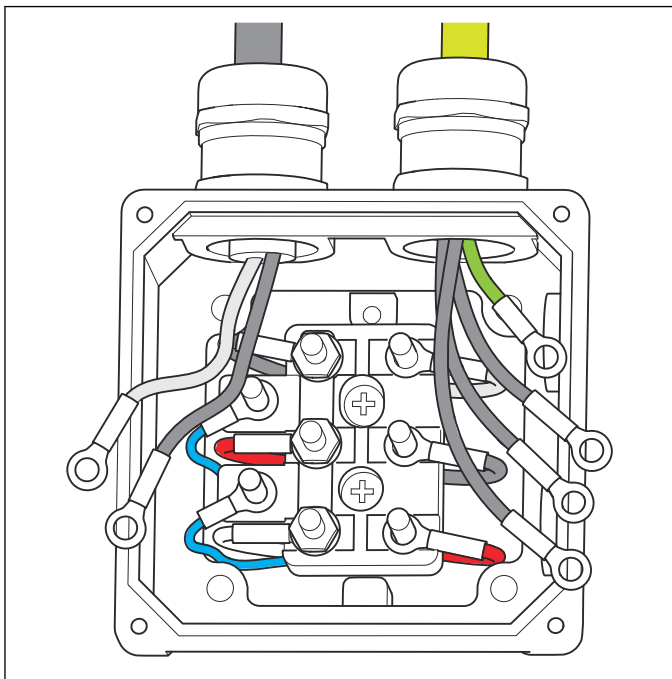
2. Put a piece of wood as a support below the drum housing and lower the product on to the piece of wood.



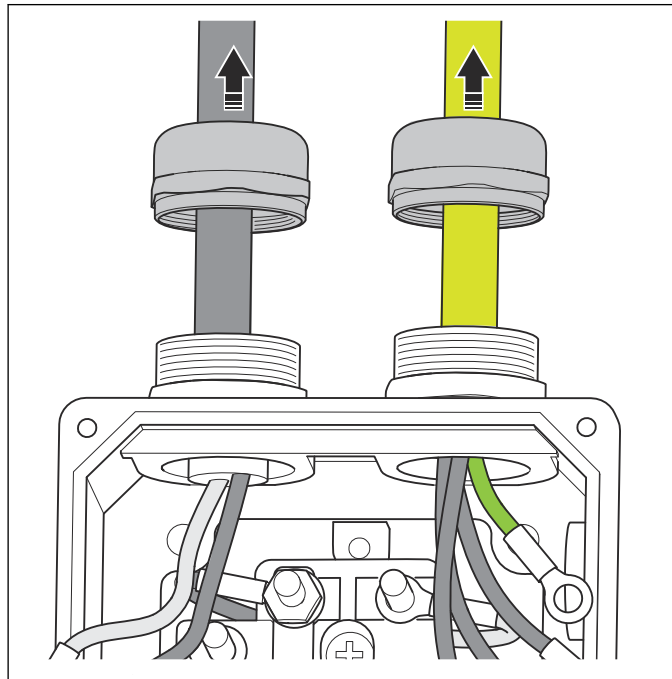
3. Make a note of the connections for the drive motor.



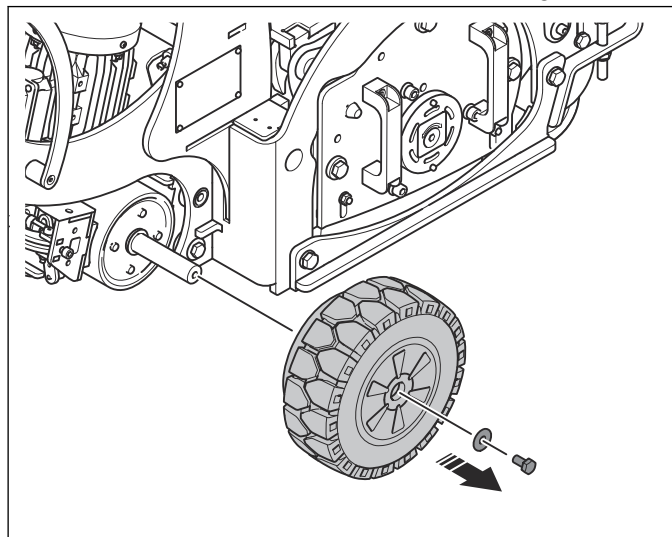
4. Remove the connections for the drive motor.



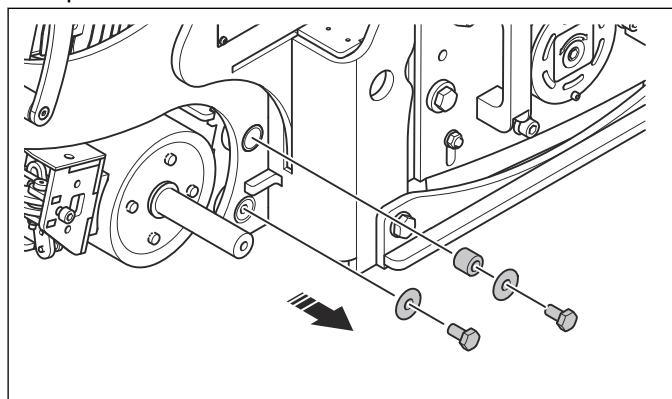
5. Remove 2 X and remove the cables.



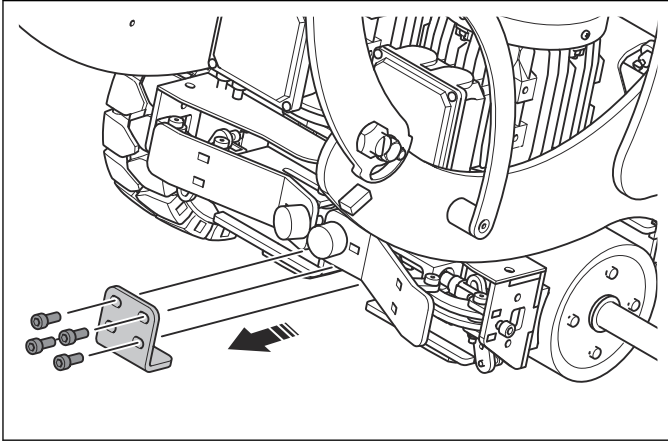
6. Remove the screw, the washer and the right wheel.



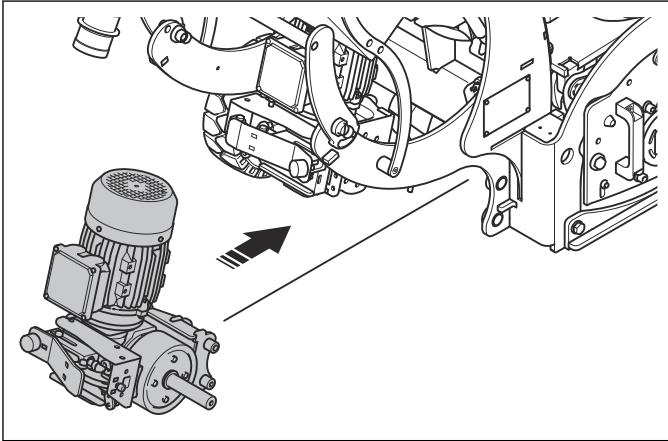
7. Remove the 2 screws, the 2 washers and the spacer.



8. Remove the 4 screws and the bracket.



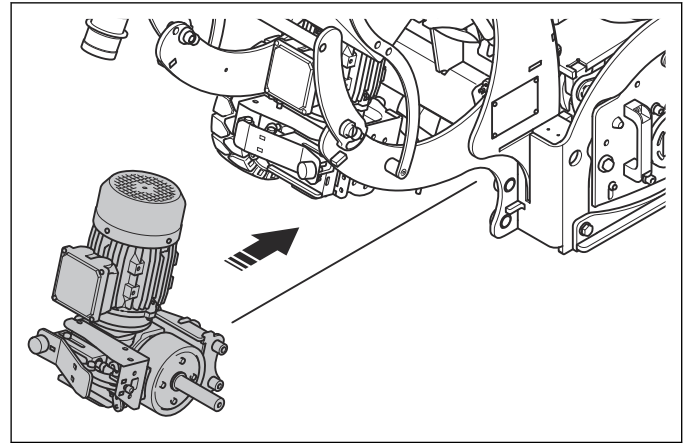
9. Remove the drive system assembly.



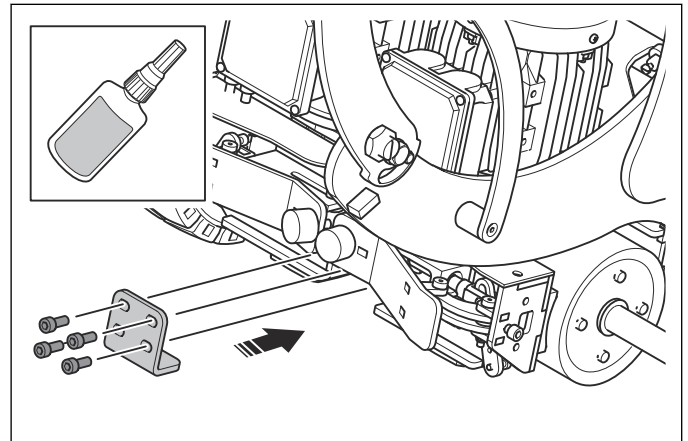
10. Do the same procedure on the opposite side of the product to remove the other drive system assembly.

6.4.2 To install the drive system assembly

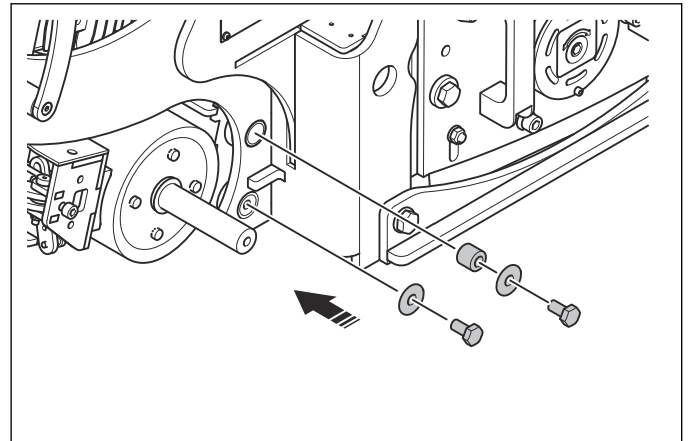
1. Install the drive system assembly.



2. Apply Loctite 243 to the 4 screws. Install the bracket and the 4 screws.

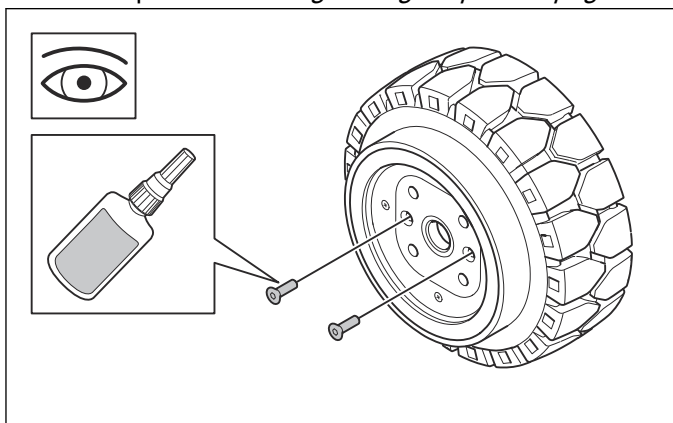


3. Install the spacer, the 2 washers and the 2 screws.

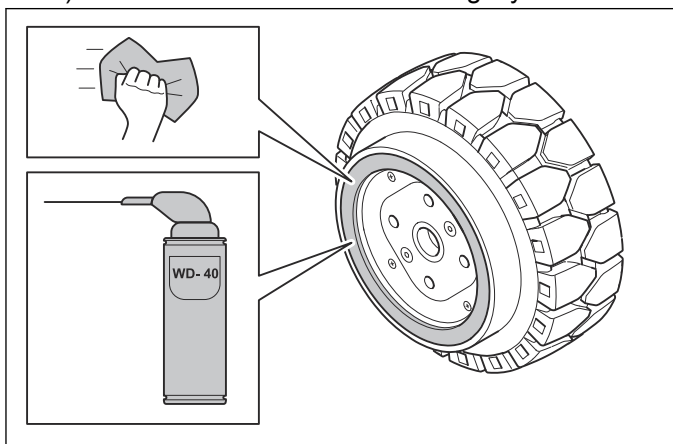


4. Do the steps that follow to install the wheel:

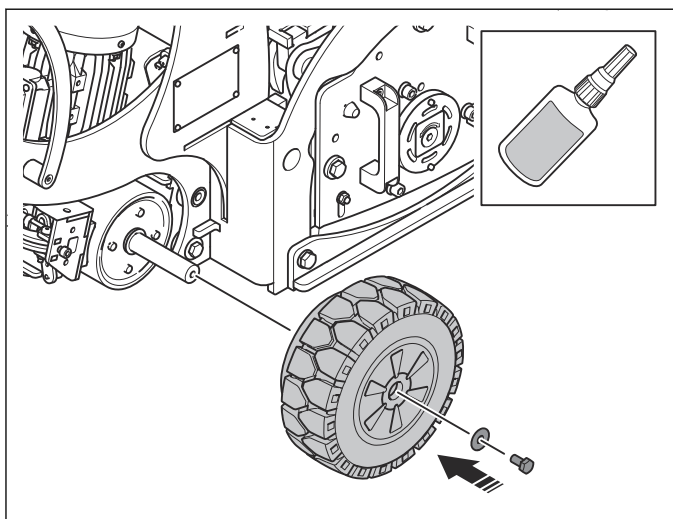
- a) Apply Loctite 648 to the screws in the rim and install them. Tighten the screws to the correct torque. Refer to *Tightening torques on page 5*.



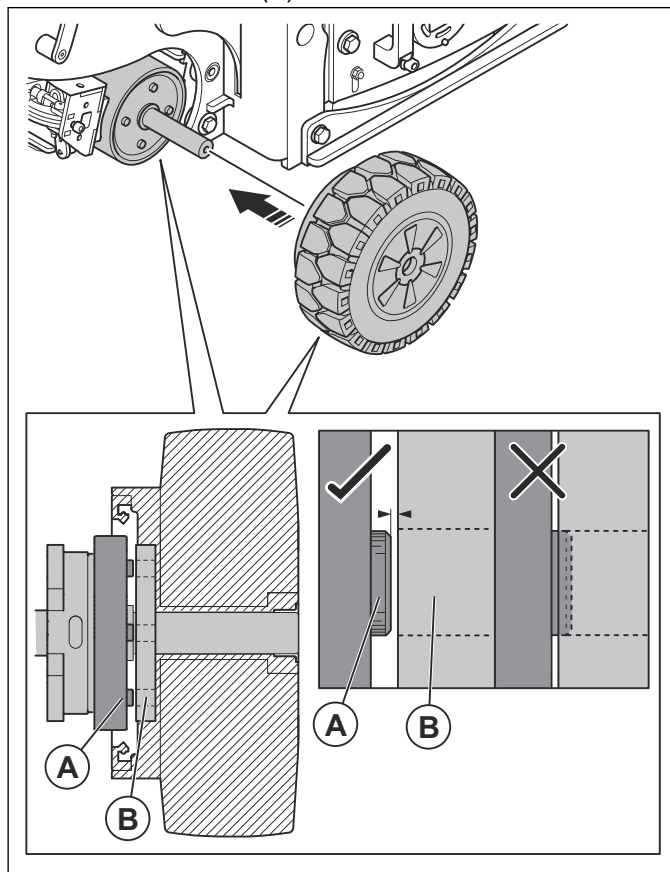
- b) Clean the seal and lubricate it lightly.



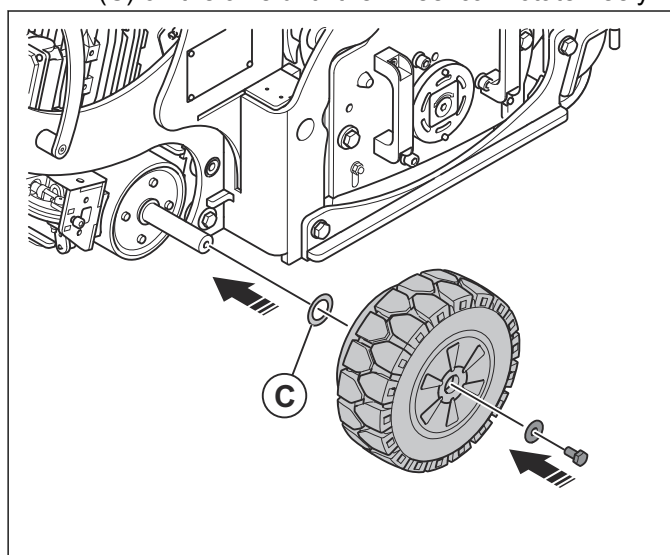
- c) Apply Loctite 243 to the screw. Install the wheel, the washer and the screw.



- d) Make sure that the pins of the fork (A) do not touch the rim (B).

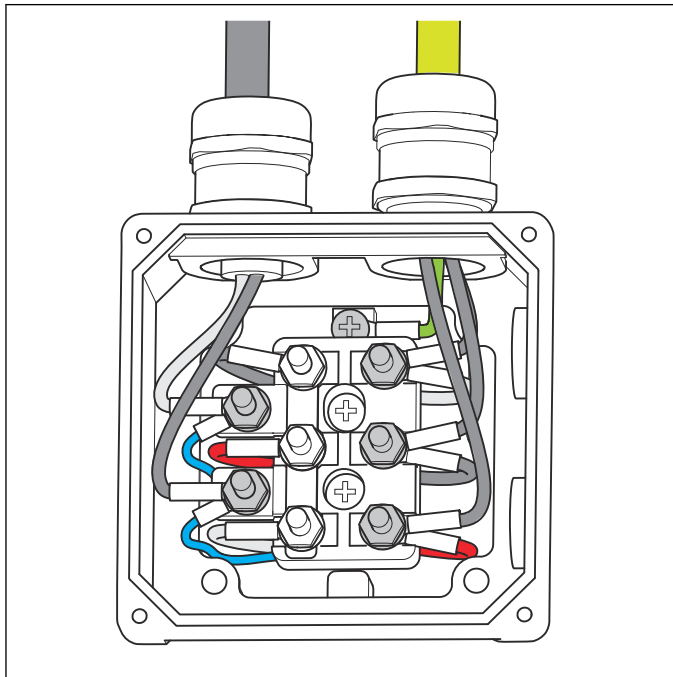


- e) If the pins of the fork touch the rim, install shims (C) on the axle until the wheel can rotate freely.



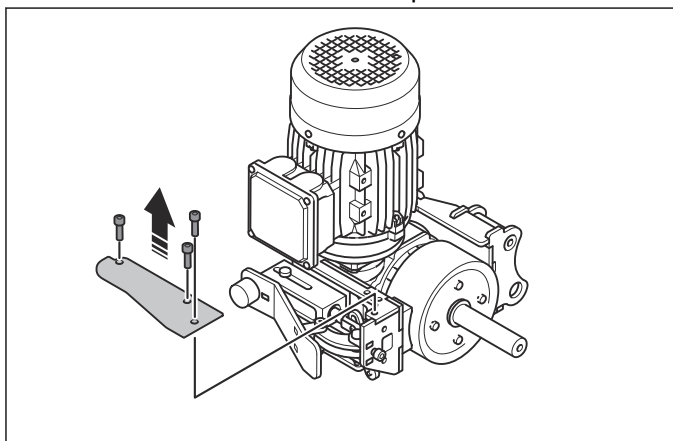
- f) Do the same procedure for the opposite wheel.

5. Install the connections for the drive motor.

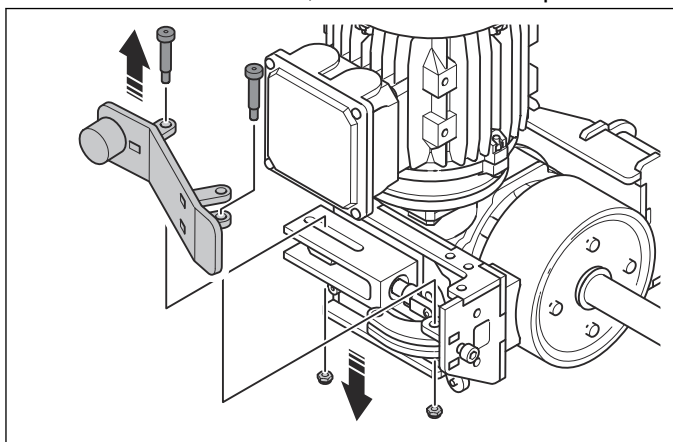


6.4.3 To disassemble the drive system assemblies

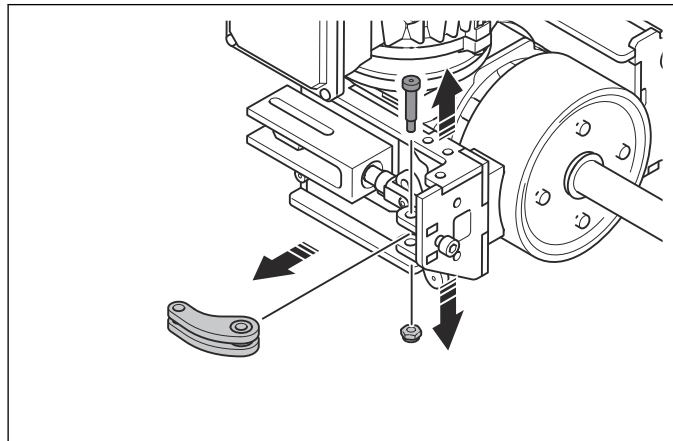
1. Remove the drive system assembly. Refer to *To remove the drive system assemblies on page 38.*
2. Remove the 3 screws and the plate.



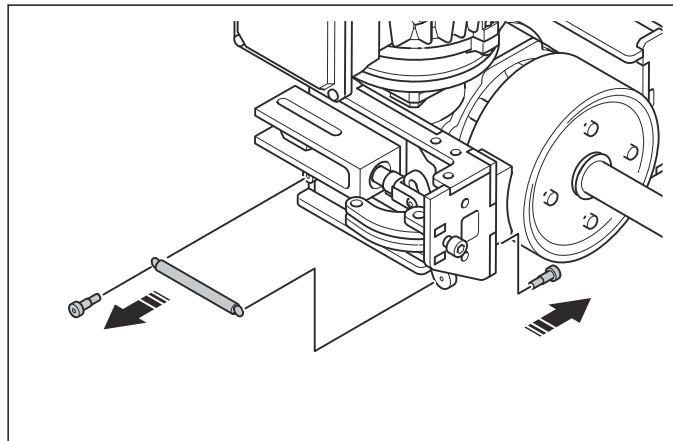
3. Remove the 2 screws, the 2 nuts and the pedal.



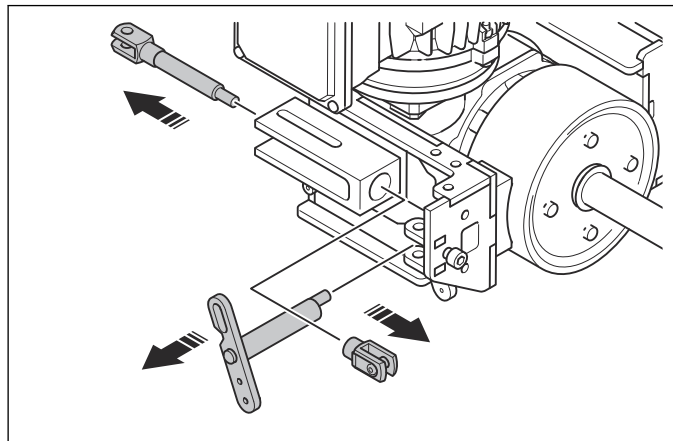
4. Remove the screw, the nut and the pedal lever.



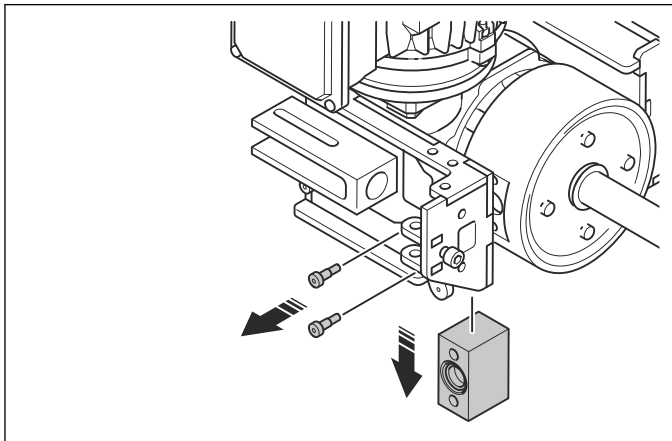
5. Remove the 2 screws and the spring.



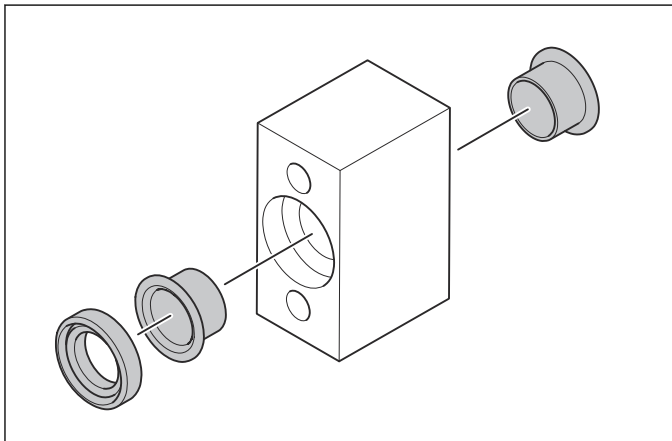
6. Remove the eccentric axle, the fork joints and the foot axle.



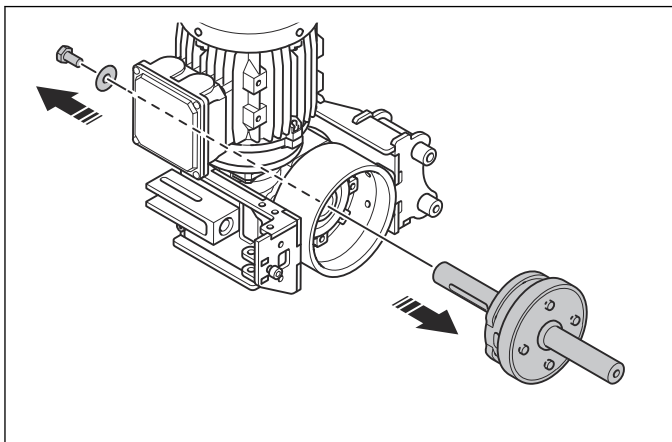
7. Remove the 2 screws and the block.



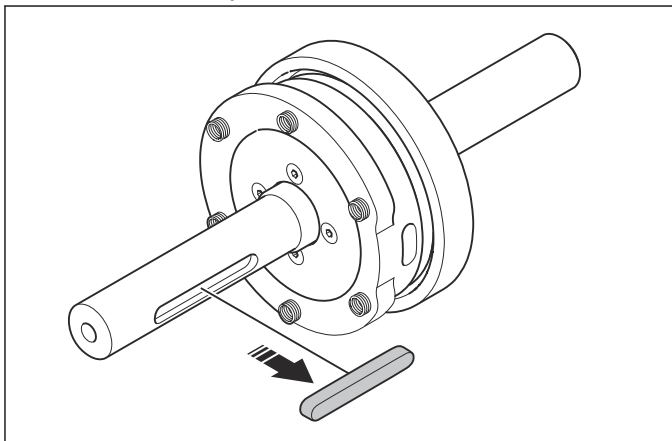
8. Remove seal and the 2 bearings from the block.



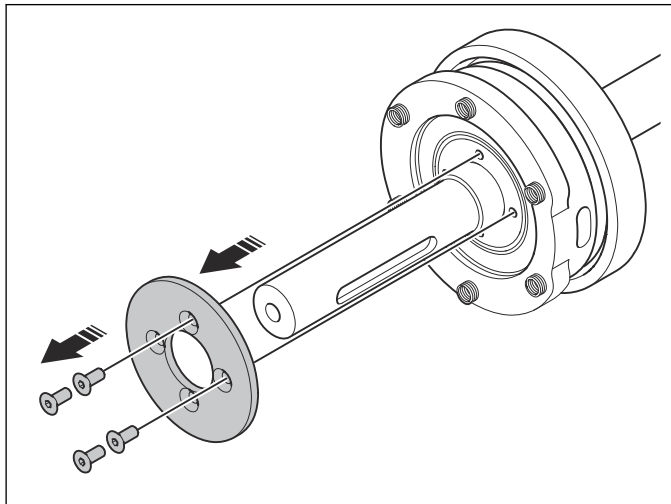
9. Remove the screw, the washer and the drive axle.



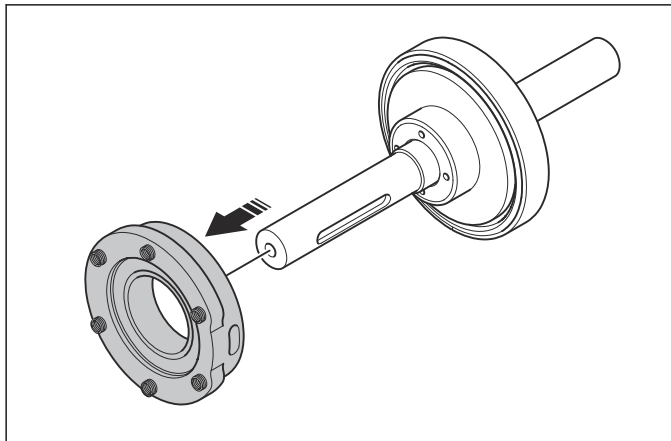
10. Remove the key.



11. Remove the 4 screws and the locking plate.

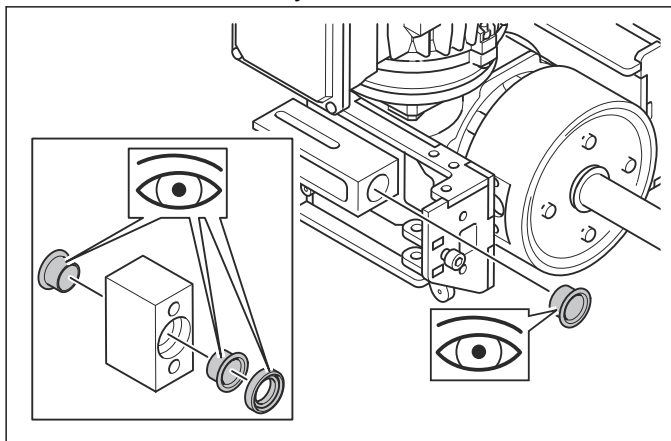


12. Remove the press plate.



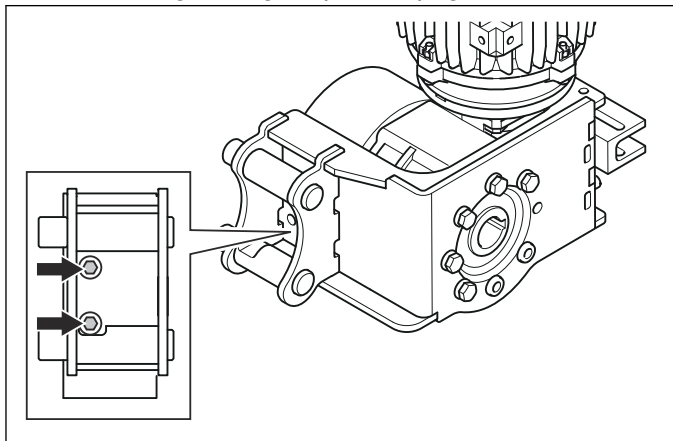
6.4.4 To do a check of the drive system assemblies

1. Disassemble the drive system assemblies. Refer to *To disassemble the drive system assemblies on page 42*.
2. Do a check of the bearings and the seals. Replace them if it is necessary.

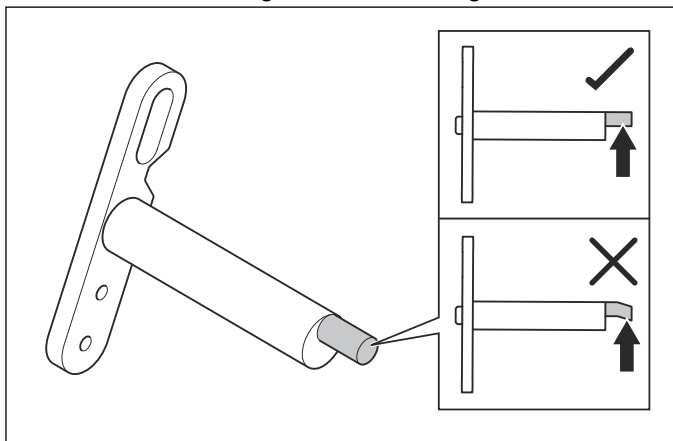


CAUTION: Do not apply grease or brake cleaner to the bearings.

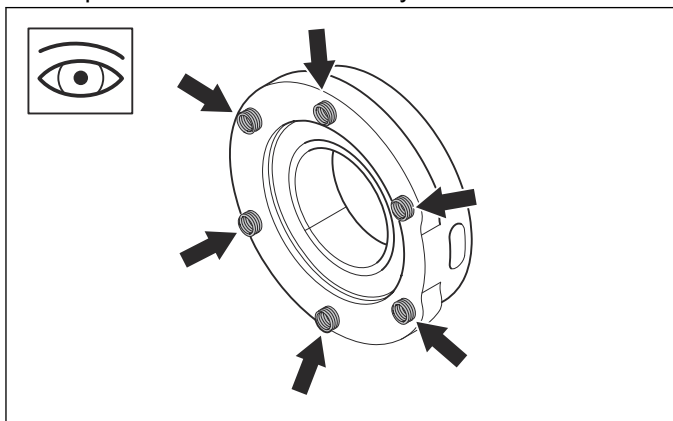
3. Tighten the screws to the X to the correct torque.
Refer to *Tightening torques on page 5*



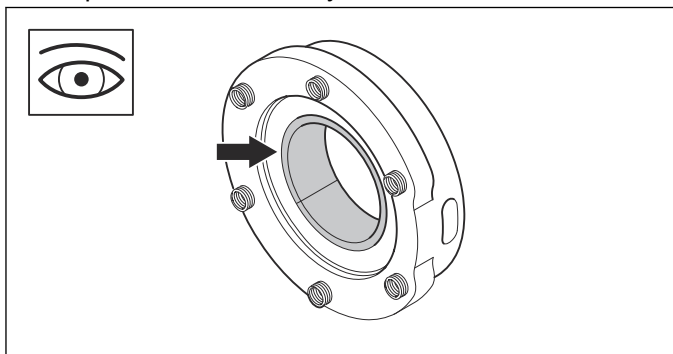
4. Do a check of the pin on the eccentric axle. Make sure that it is straight and not damaged.



5. Do a check of the springs on the press plate. Replace them if it is necessary.

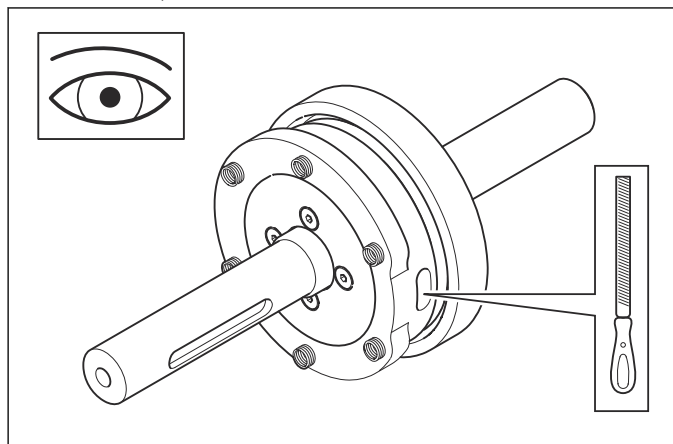


6. Do a check of the bearing in the press plate. Replace it if it is necessary.

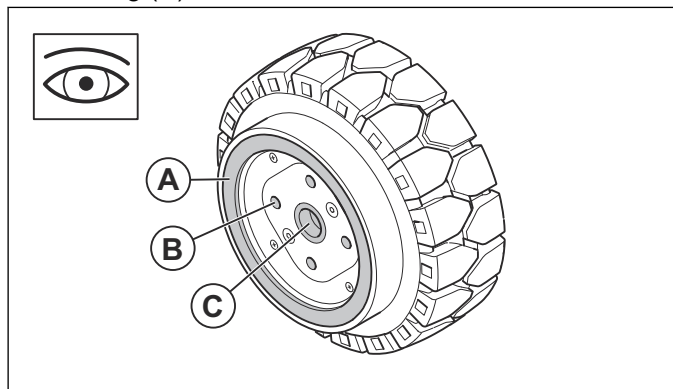


Note: Install the new bearing with a press tool. Use a maximum force of 25 kN.

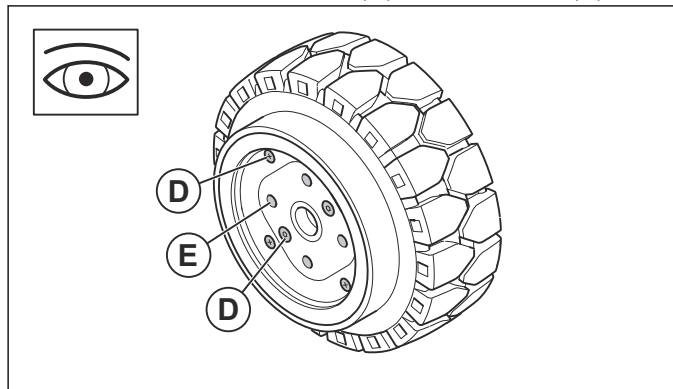
7. Do a check of the notch in the press plate. If there are burrs, remove them with a file.



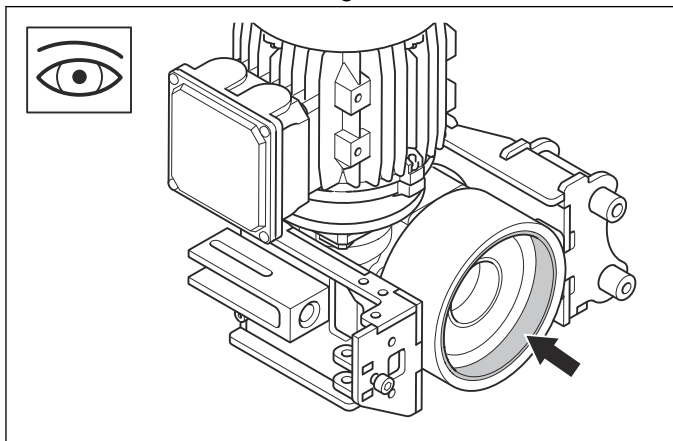
8. Do a check of the seal (A), the holes (B) and the bearing (C).



9. Do a check of the screws (D) and the holes (E).

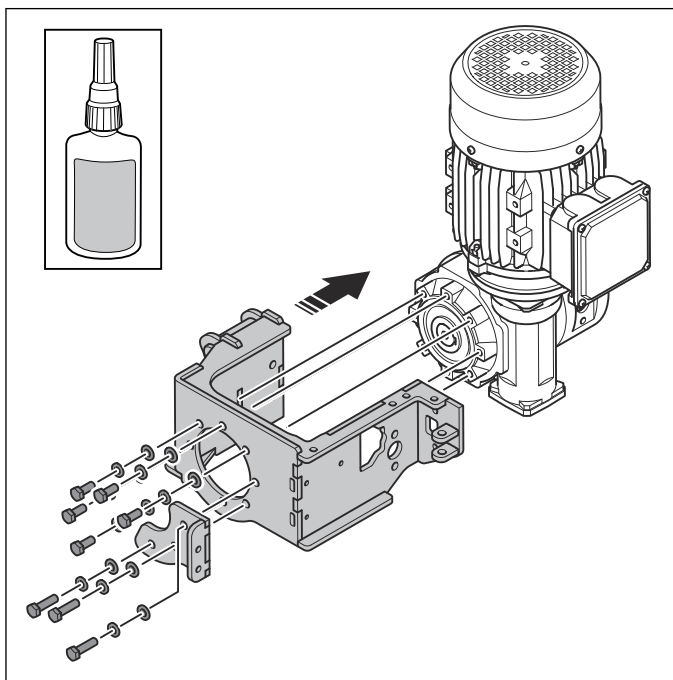


10. Do a check of the bearing.

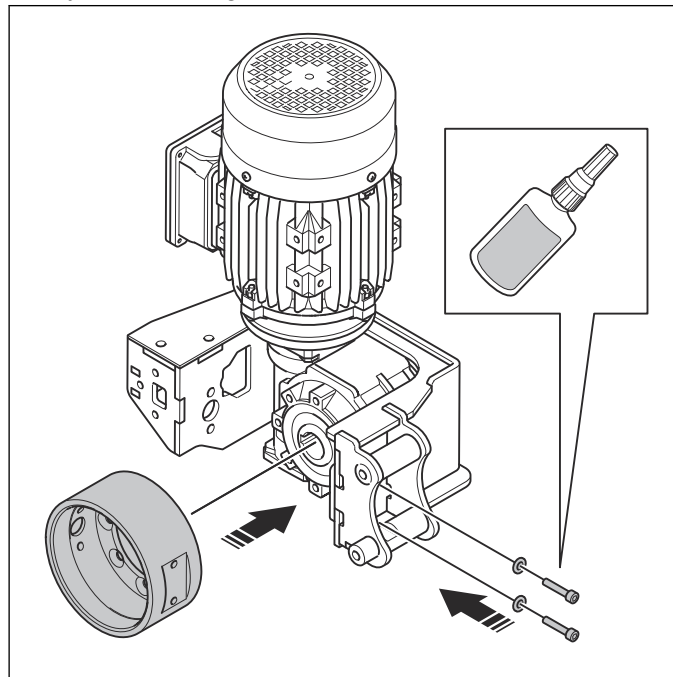


6.4.5 To assemble the drive system assembly

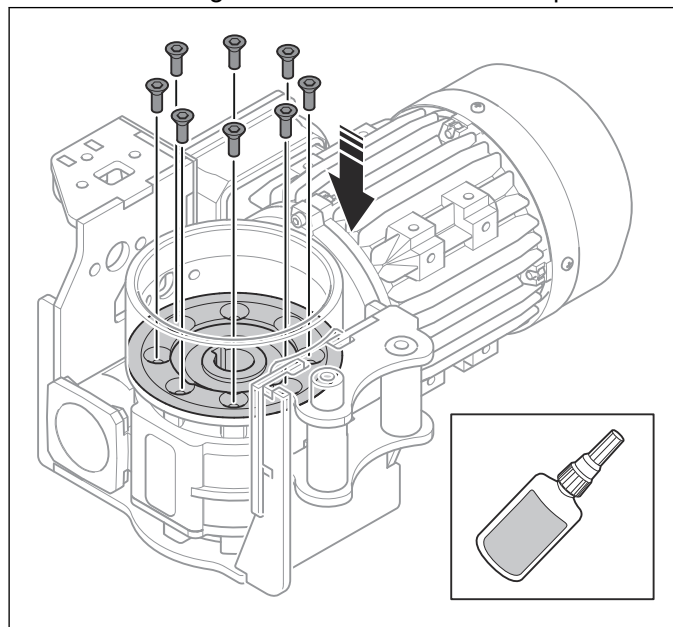
1. Do an inspection of the drive system assembly. Refer to *To do a check of the drive system assemblies on page 43*.
2. Install the drive system bracket, the X bracket, the 8 washers and the 8 screws.



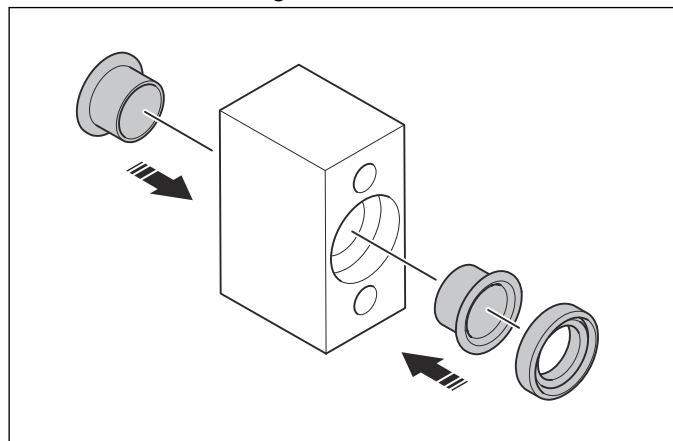
3. Apply Loctite 243 to the 2 screws. Install the drive system housing, the 2 washers and the 2 screws.



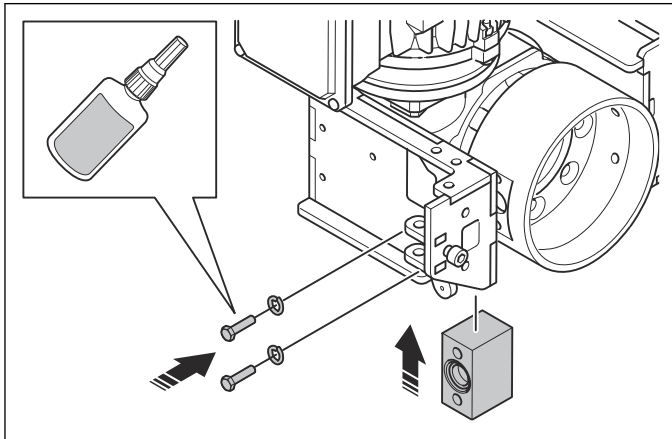
4. Apply Loctite 243 to the screw holes. Install the 8 screws and tighten them to the correct torque.



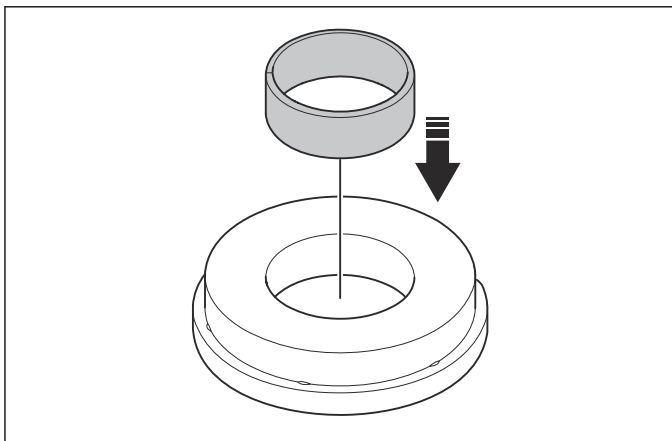
5. Install the 2 bearings and the seal.



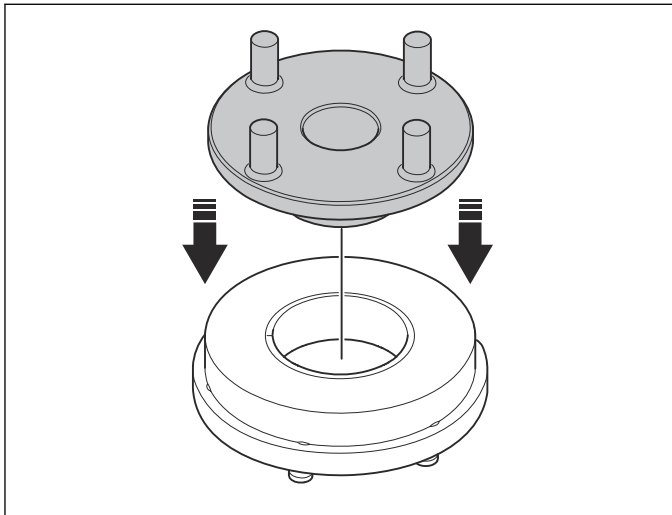
6. Apply Loctite 243 to the 2 screws. Install the block and the 2 screws.



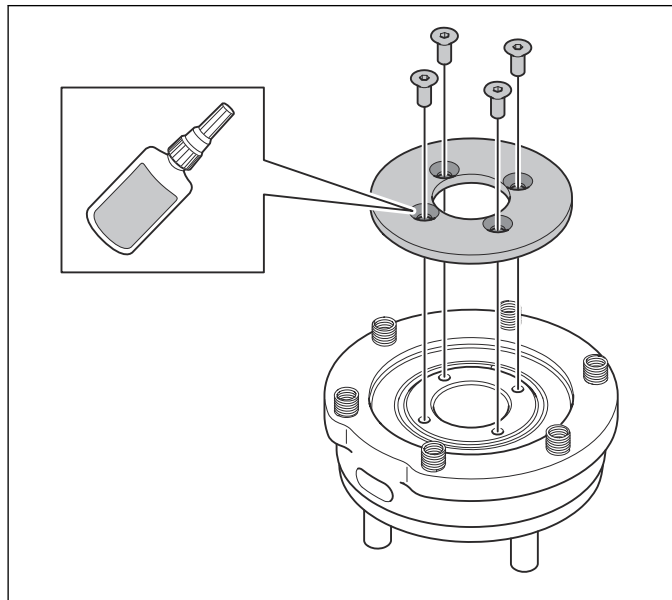
7. Install the X in the pressure plate with a press tool. Use a maximum force of 25 kN.



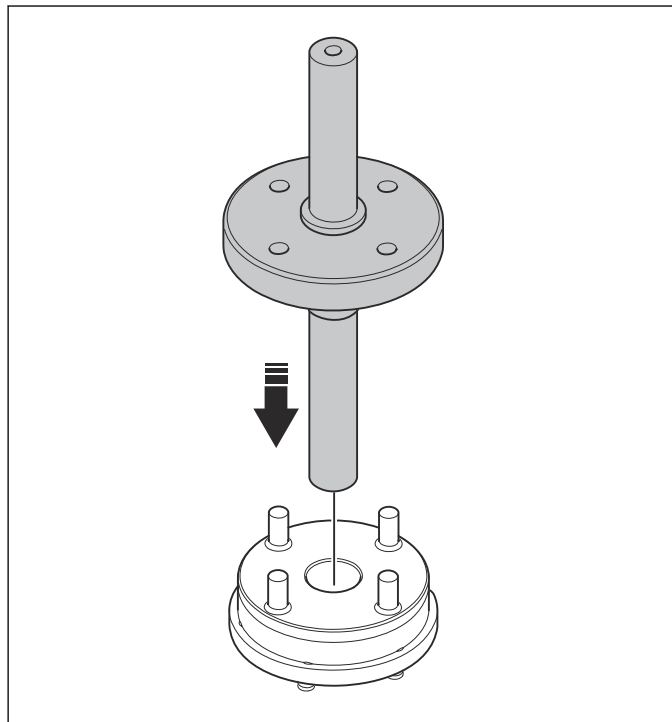
8. Install the fork in the pressure plate with a press tool.



9. Install the 6 springs and the plate. Apply Loctite 243 to the screw holes and install the 4 screws.

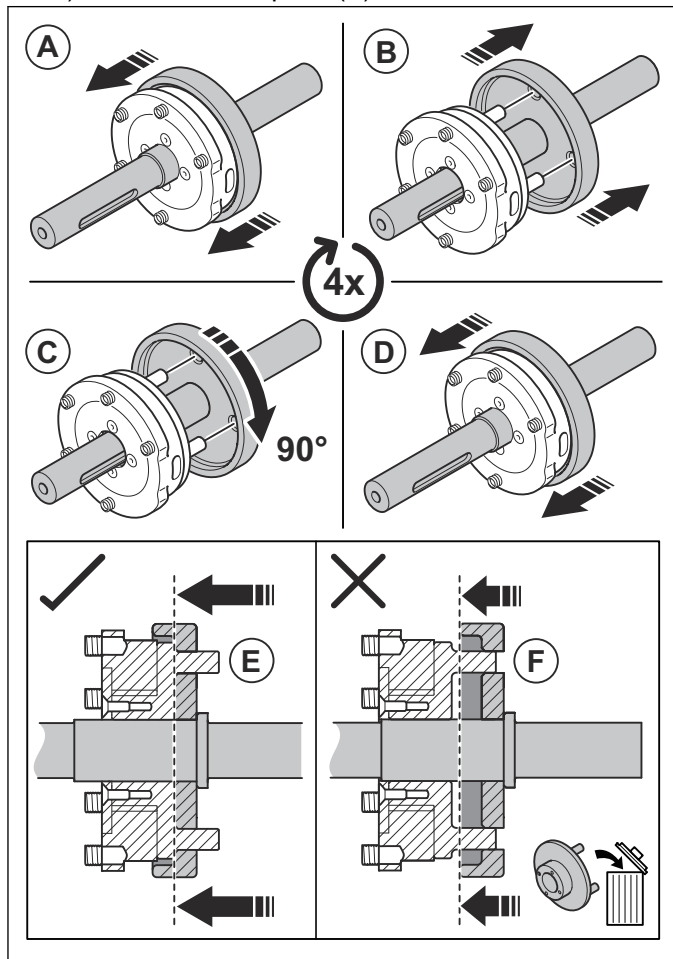


10. Install the drive shaft.



11. Do a check of the fork plate:

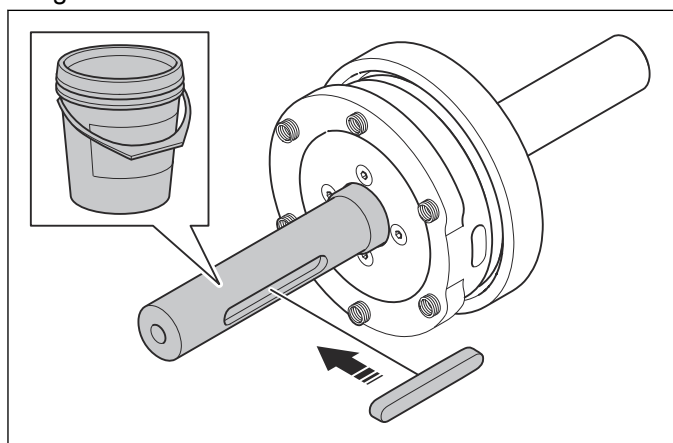
a) Install the fork plate (A).



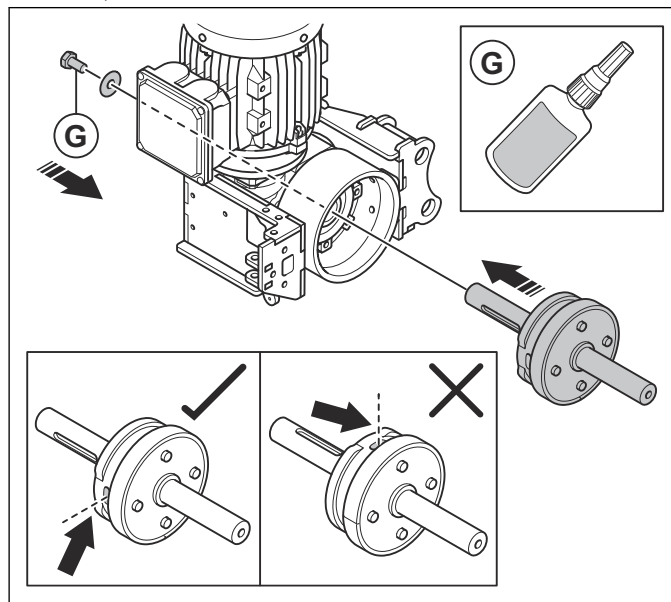
b) Remove the fork plate (B), rotate it 90° (C) and install the fork plate (D).

c) Do the procedure until you have rotated the fork plate 360°. Make sure that you can install the fork plate easily in all 4 positions (E). Replace the fork plate if there is resistance when you install it (F).

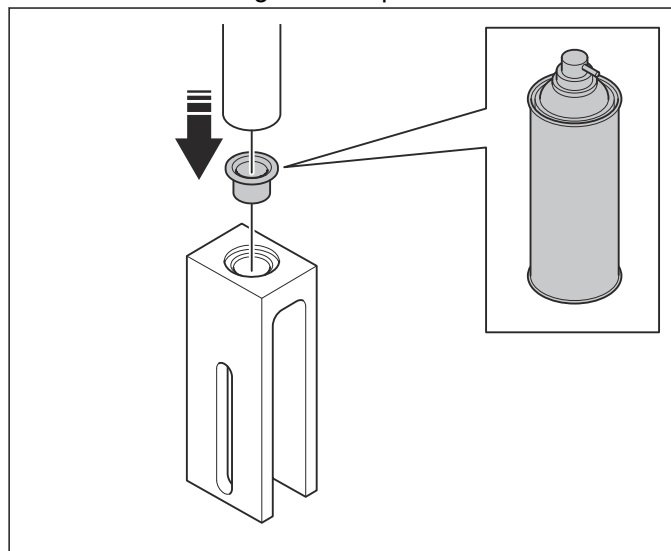
12. Install the key and apply Molykote W2 Multipurpose grease to the shaft.



13. Apply Loctite 243 to the screw (G). Install the drive axle, the washer and the screw.

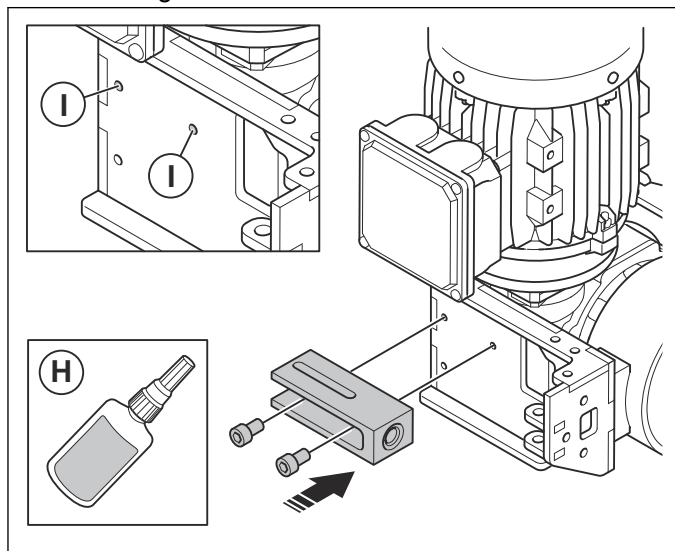


14. Clean the bushing with Motip brake cleaner.

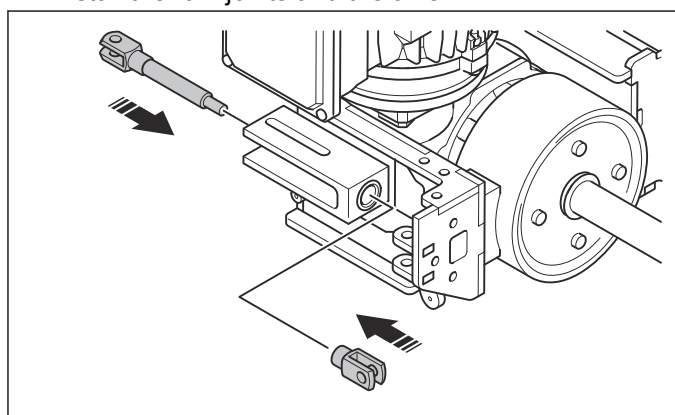


15. Install the bushing with a press tool. Use a maximum force of 25 kN.

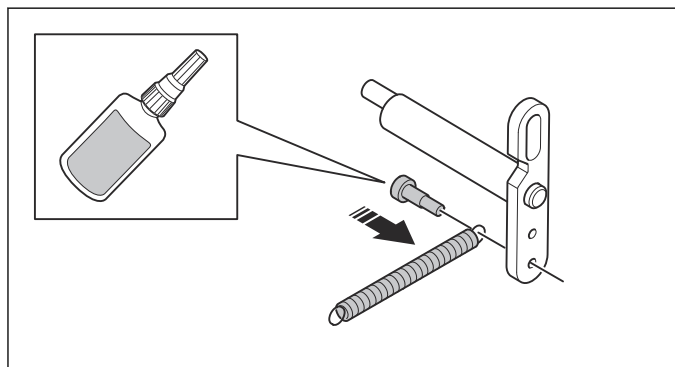
16. Apply Loctite 243 (H) to the 2 screw holes (I). Install the sliding block and the 2 screws.



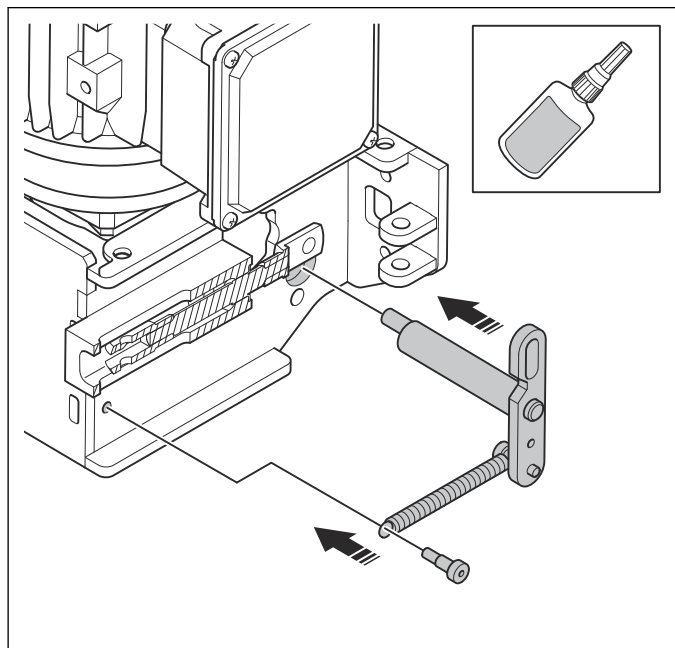
17. Install the fork joints and the axle.



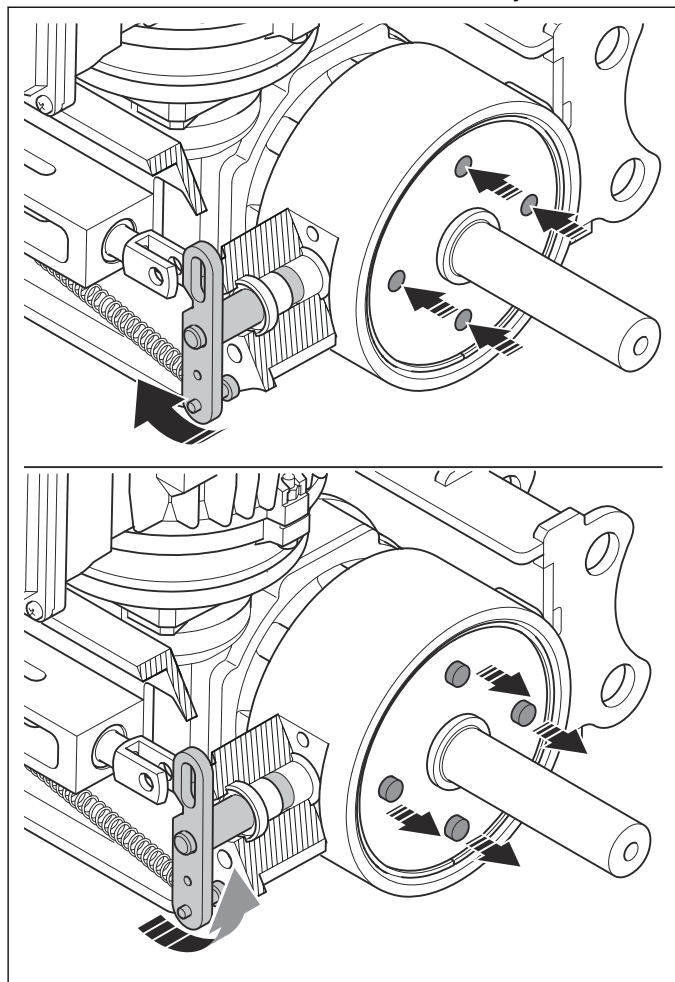
18. Apply Loctite 243 to the screw and install the spring on the eccentric axle.



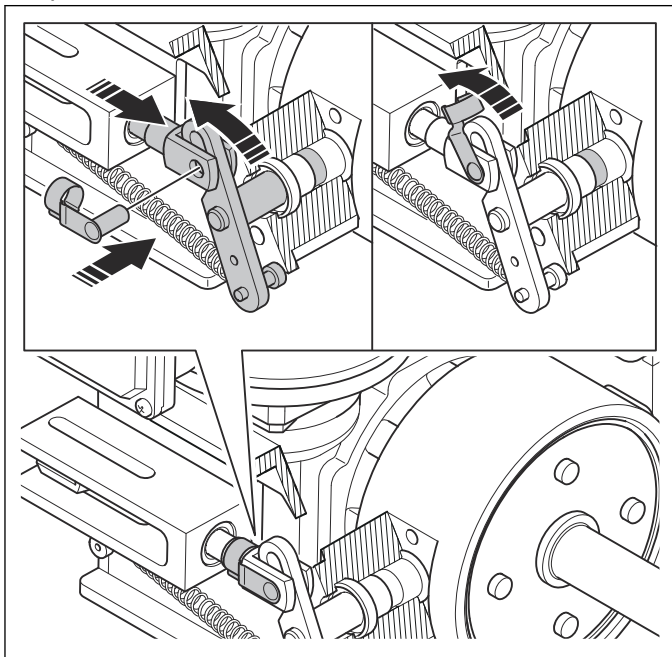
19. Apply Loctite 243 to the screw and install the spring and the eccentric axle on the motor bracket.



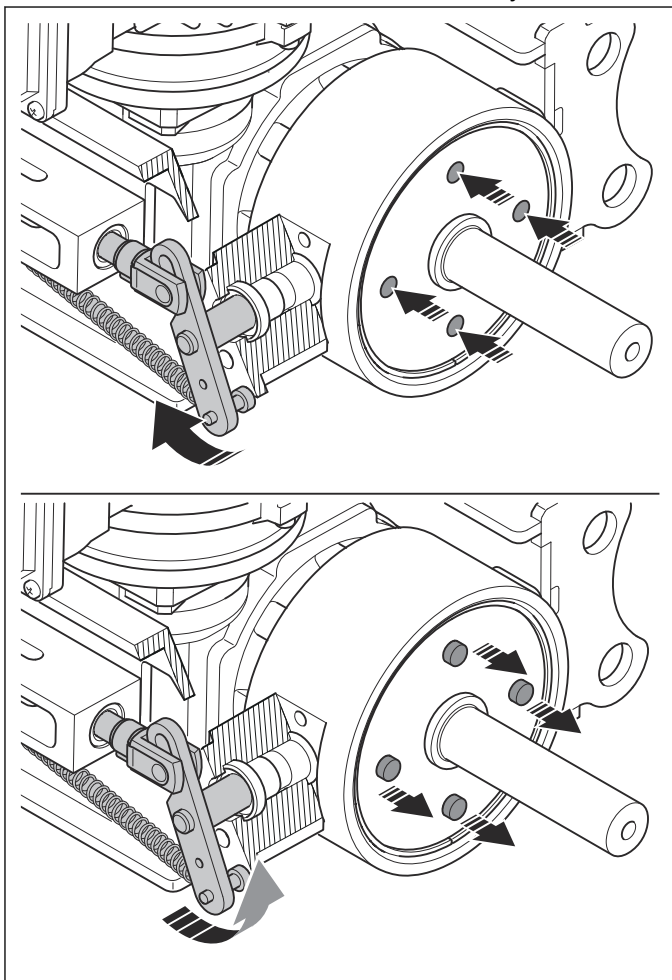
20. Turn the eccentric axle to the right and to the left. Make sure that the forks move smoothly.



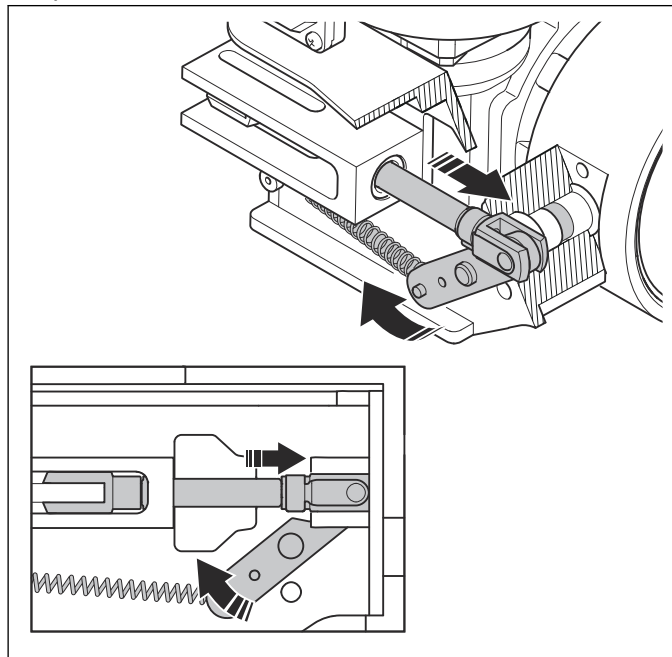
21. Install the eccentric axle to the fork joint with the lock pin.



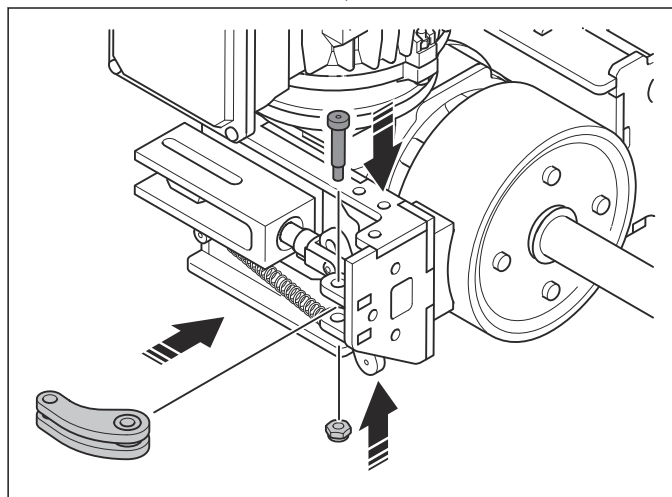
22. Turn the eccentric axle to the right and to the left. Make sure that the forks move smoothly.



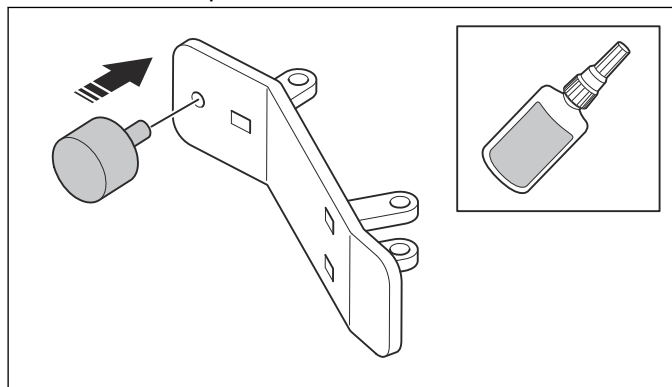
23. Push the eccentric axle as far to the right as possible.



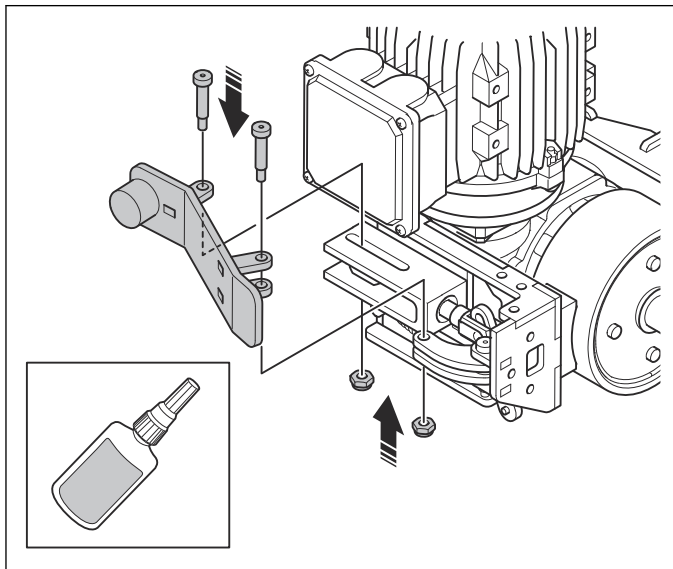
24. Install the mount bracket, the bolt and the nut.



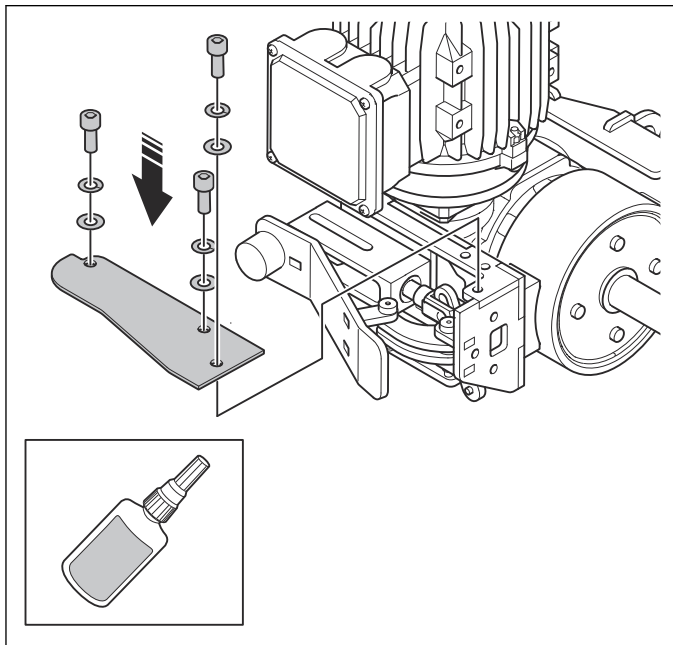
25. Apply Loctite 243 to the shock absorber and install it on the brake pedal.



26. Apply Loctite 243 to the 2 bolts. Install the pedal, the 2 bolts and the 2 nuts.



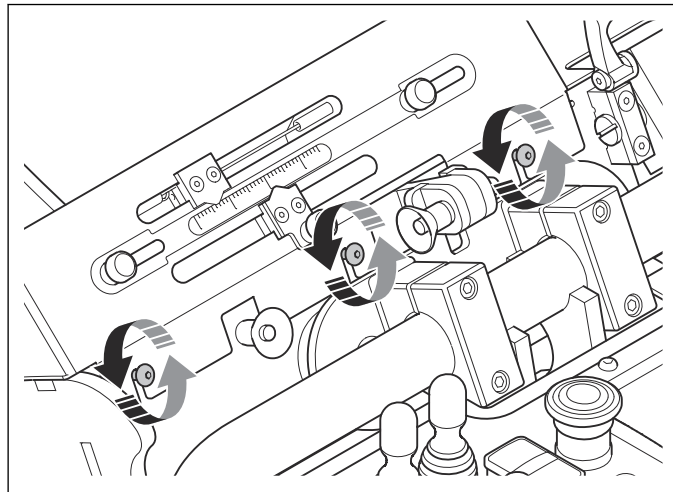
27. Apply Loctite 243 to the 3 screws. Install the plate, the 6 washers and the 3 screw.



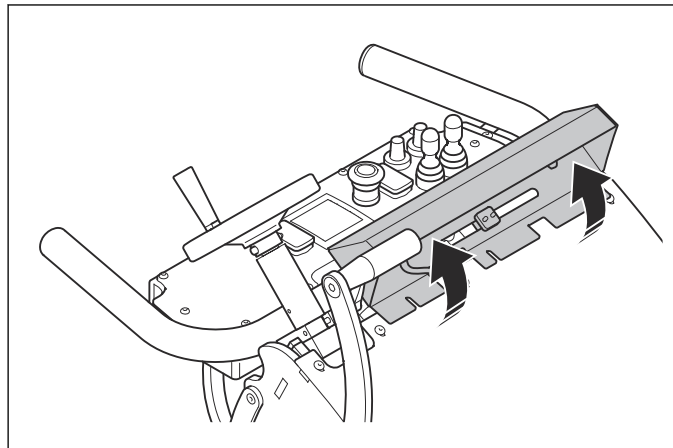
6.5 Steering wheel

6.5.1 To remove the steering wheel

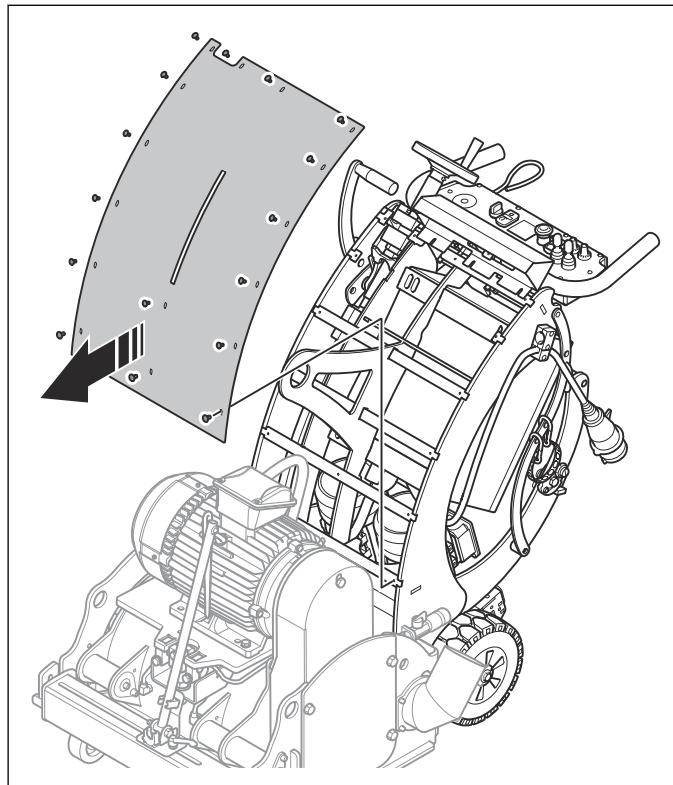
1. Loosen the 3 screws to the depth plate.



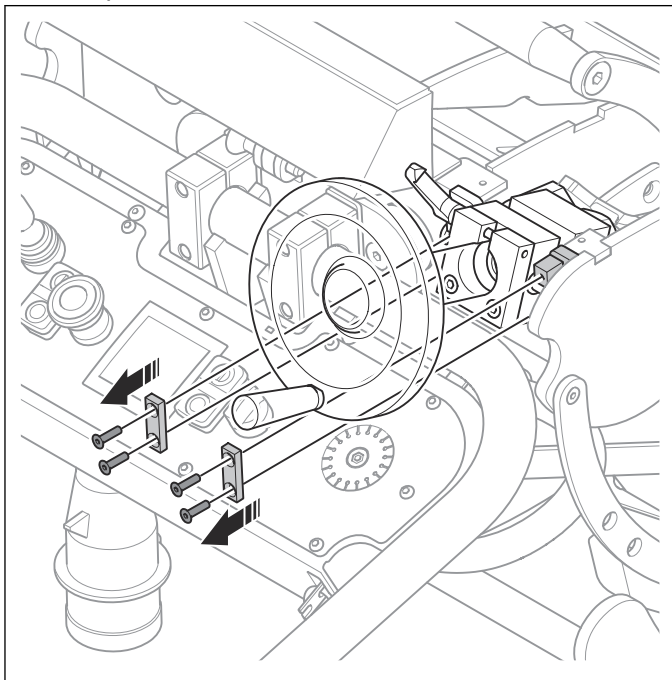
2. Turn the depth plate up against the control panel.



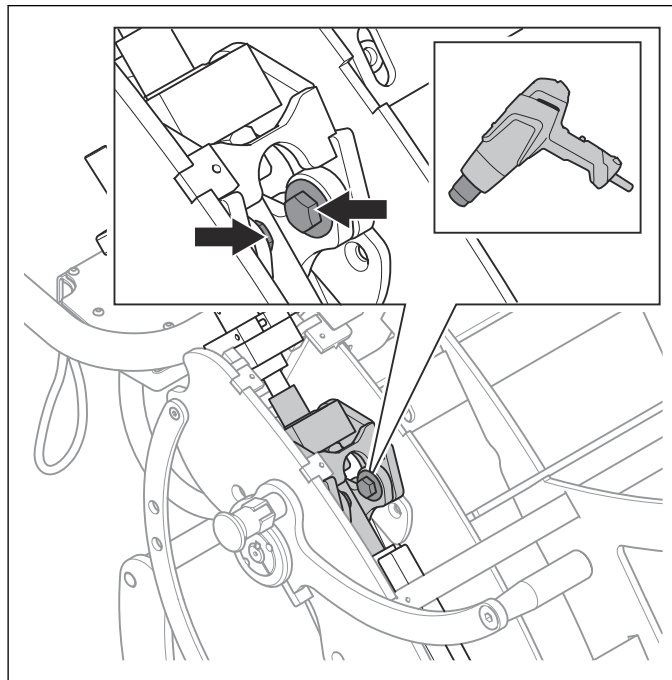
3. Remove the 16 screws and the front plate.



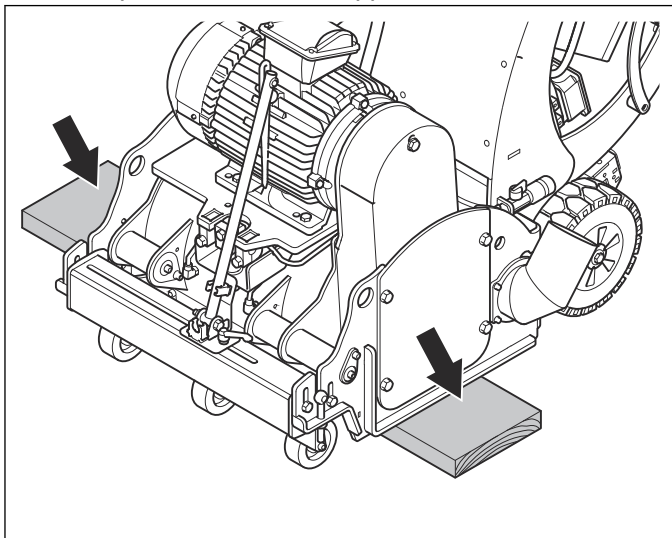
4. Remove the 4 screws and the top parts to the pipe clamps.



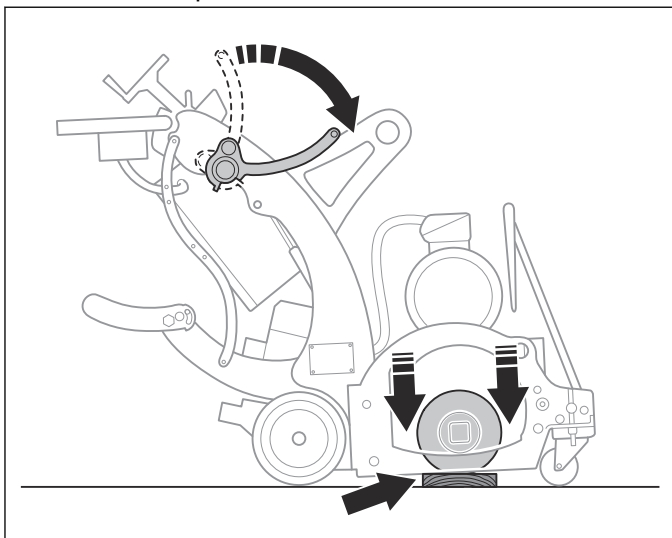
7. Apply heat to the 2 screws to melt the Loctite 243. Use a maximum heat of 250 °C.



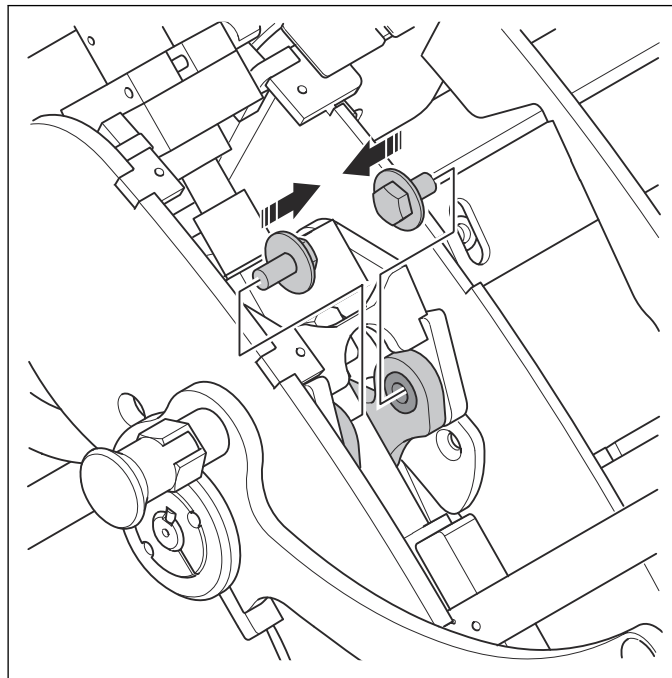
5. Put a piece of wood as support below the drum.



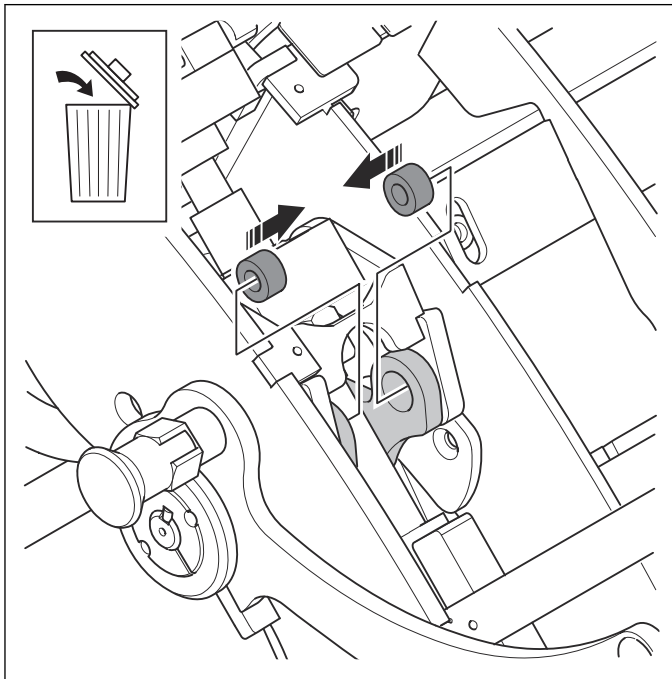
6. Move the handle lever forward until the drum touches the piece of wood.



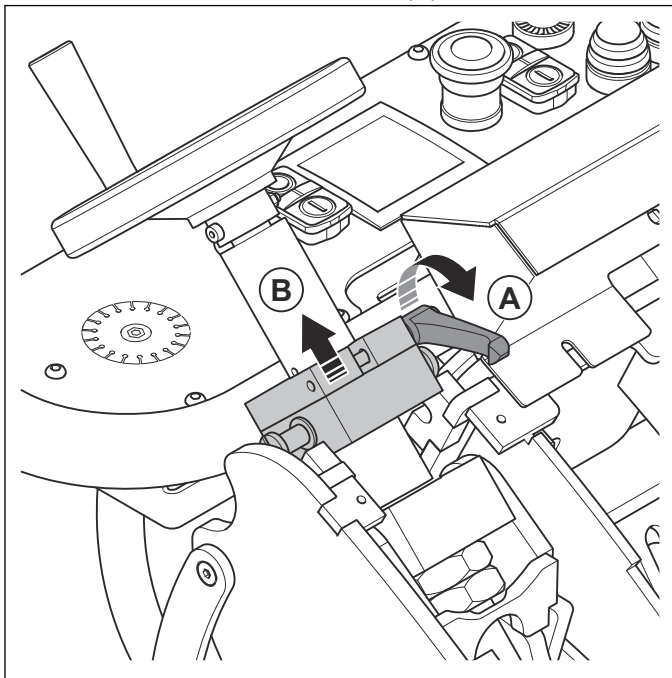
8. Remove the 2 bolts.



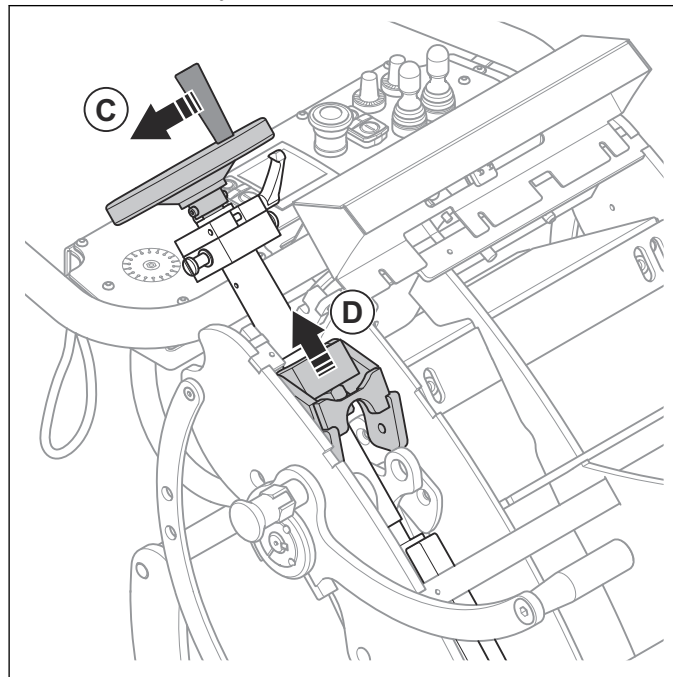
9. Remove the 2 bushings and discard them.



10. Loosen the height adjustment clamp (A) and move it in direction of the hand wheel (B).

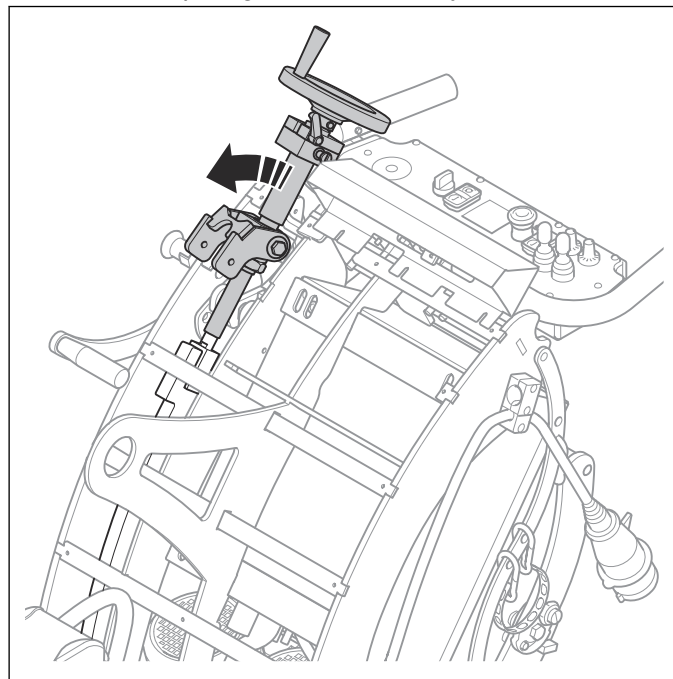


11. Turn the hand wheel (C) to move up the top height lever assembly.

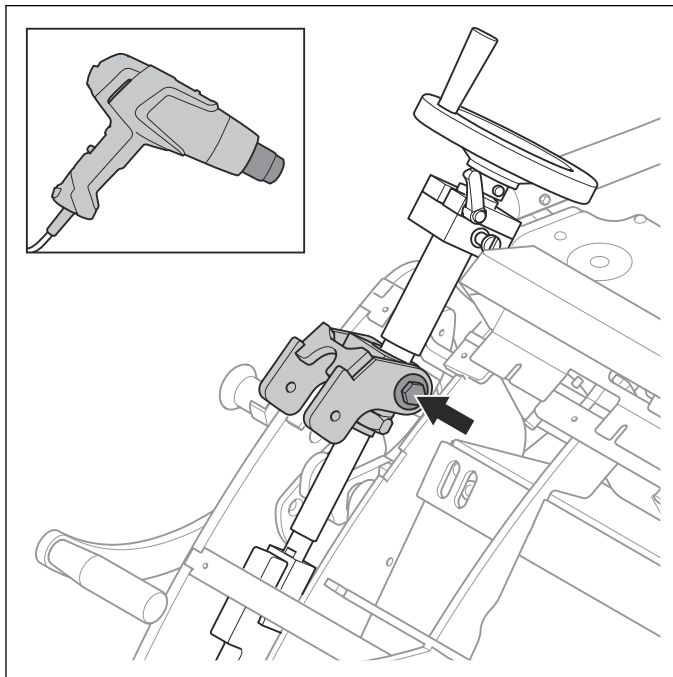


12. Move up the height lever bracket (D).

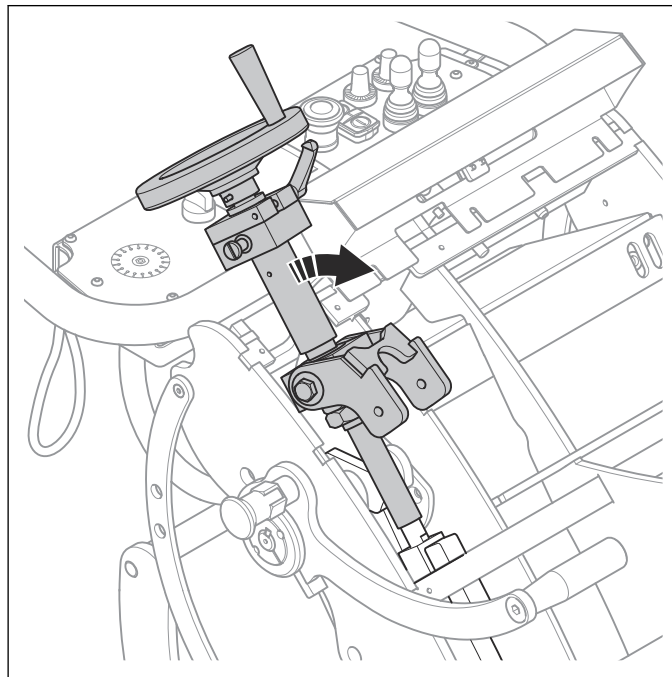
13. Turn the top height lever assembly to the side.



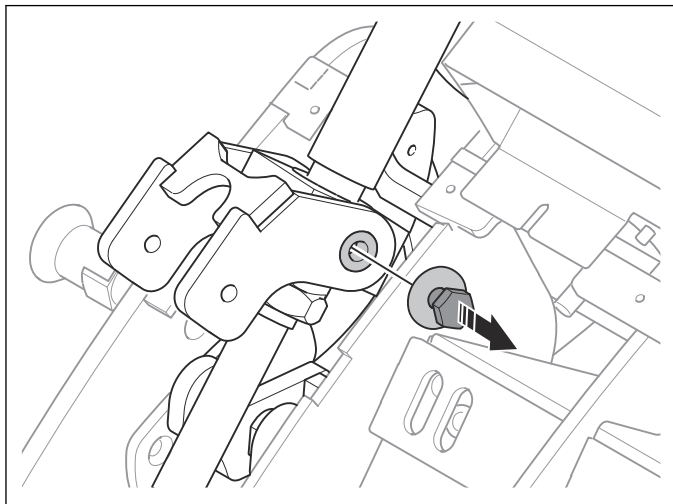
14. Apply heat to the screws to melt the Loctite 243. Use a maximum heat of 250 °C.



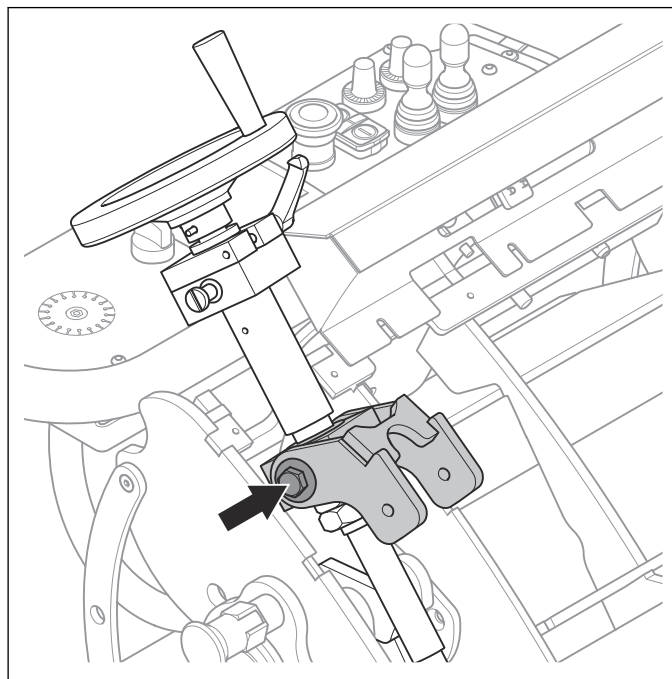
17. Turn the top height lever assembly to the opposite side.



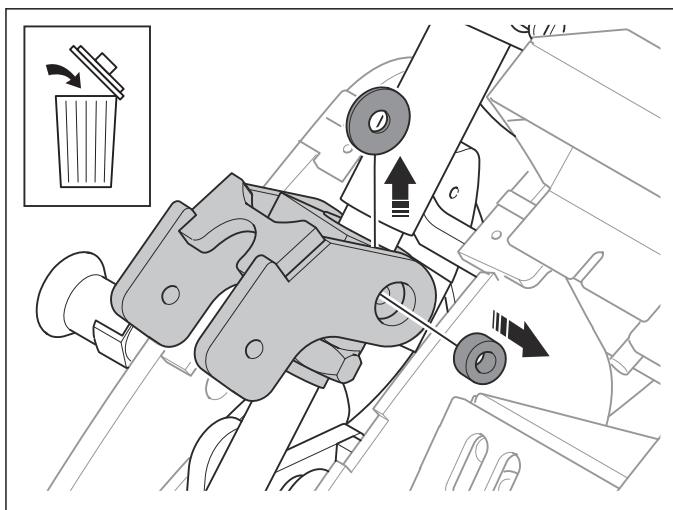
15. Remove the bolt.



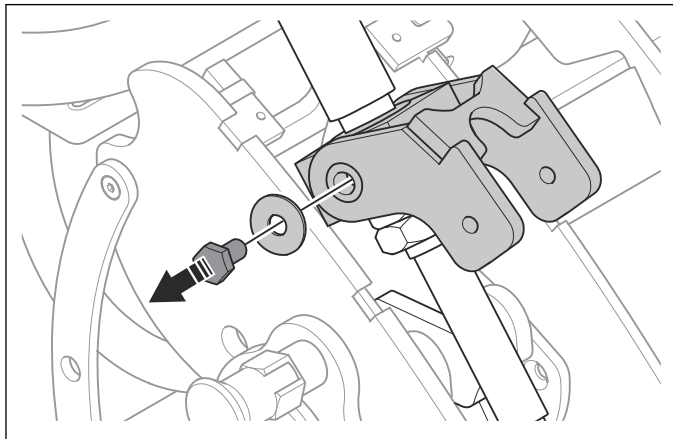
18. Apply heat to the screws to melt the Loctite 243. Use a maximum heat of 250 °C.



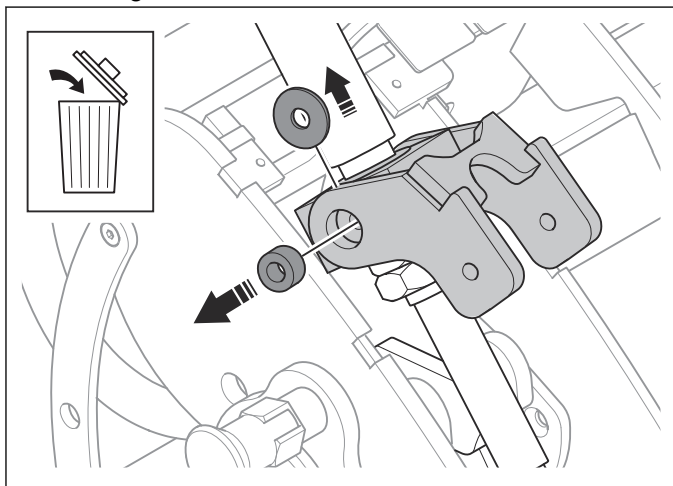
16. Remove the bushing and the washer and discard them.



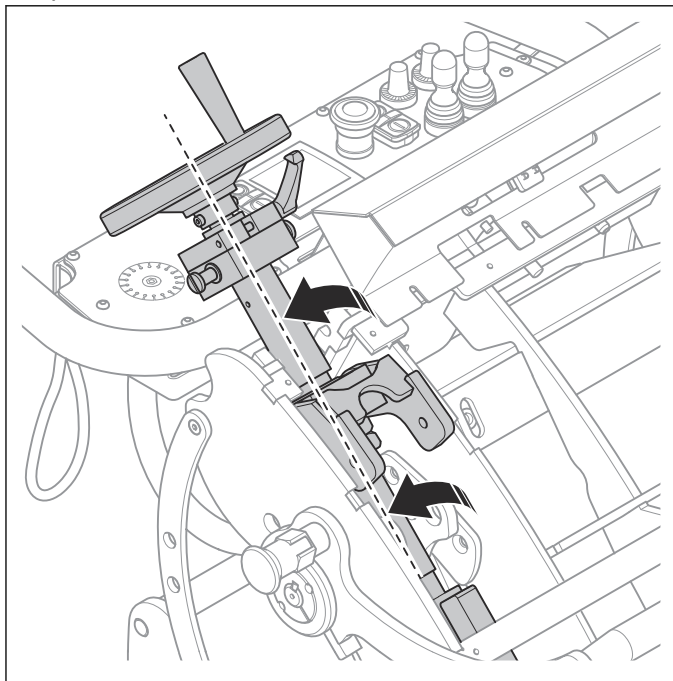
19. Remove the bolt and the washer.



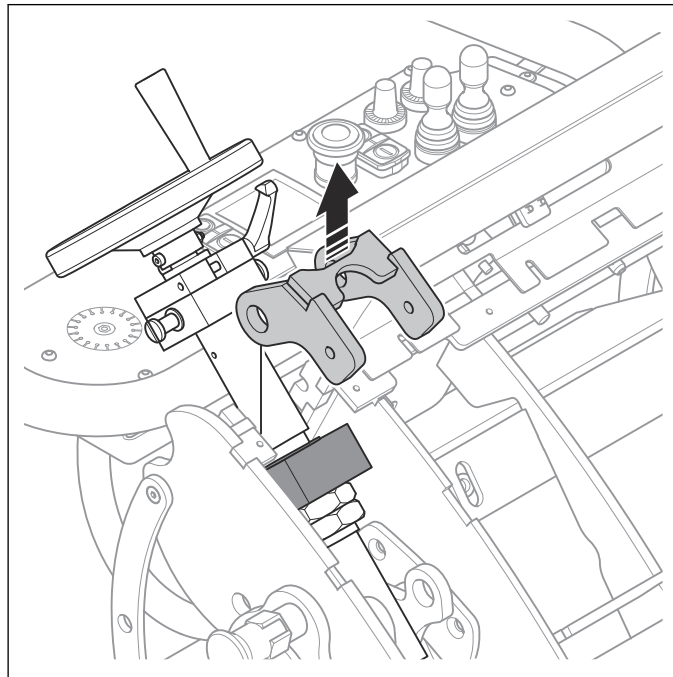
20. Remove the bushing and the washer. Discard the bushing.



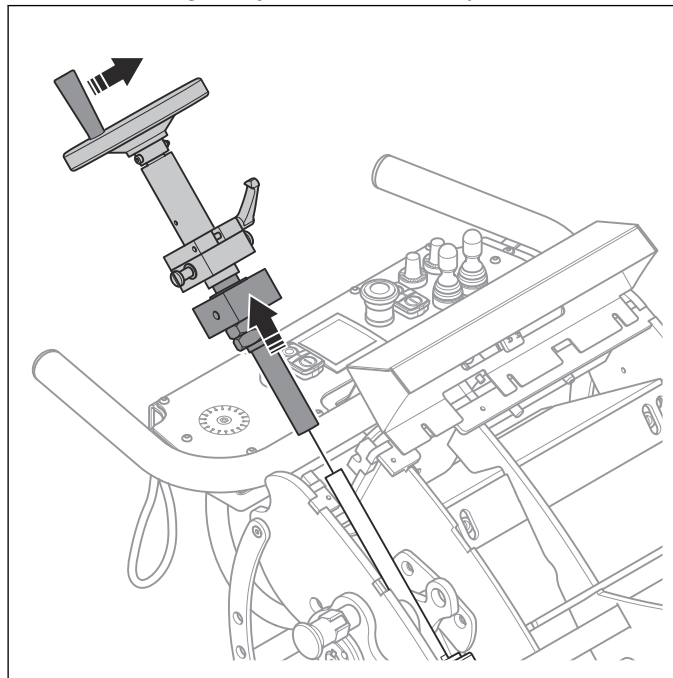
21. Turn the top height lever assembly to its central position.



22. Remove the height lever bracket.

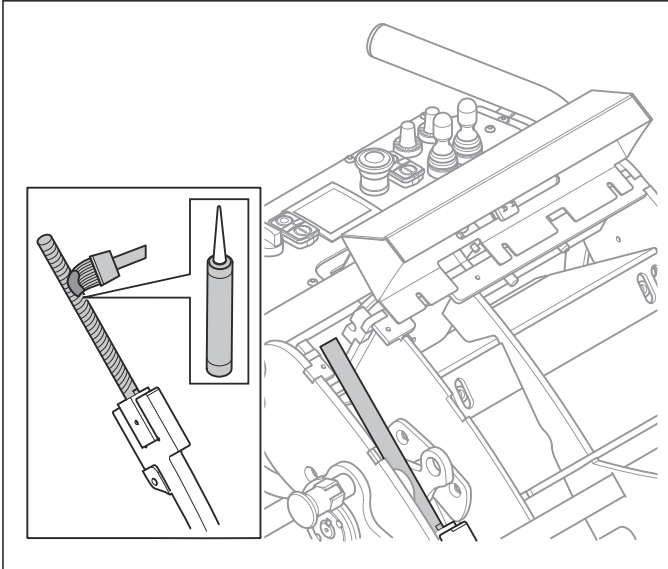


23. Turn the steering wheel and lift the steering wheel and the height adjustment assembly.

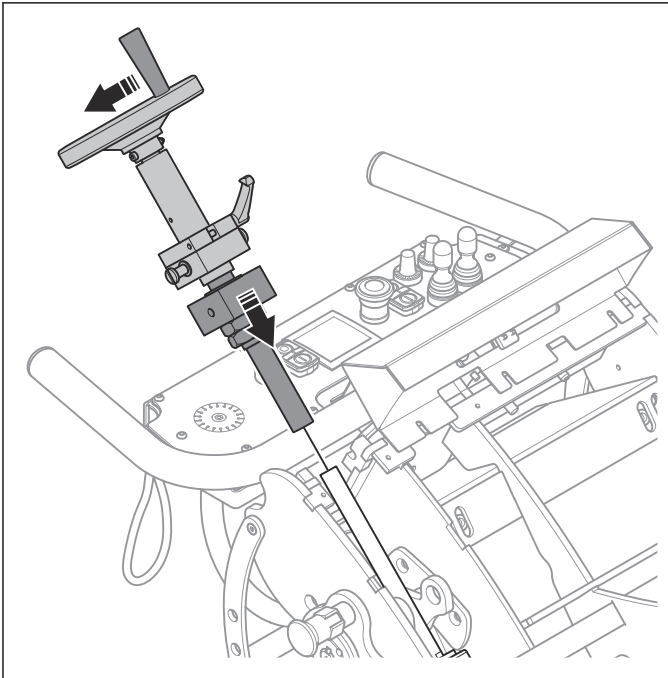


6.5.2 To install the steering wheel

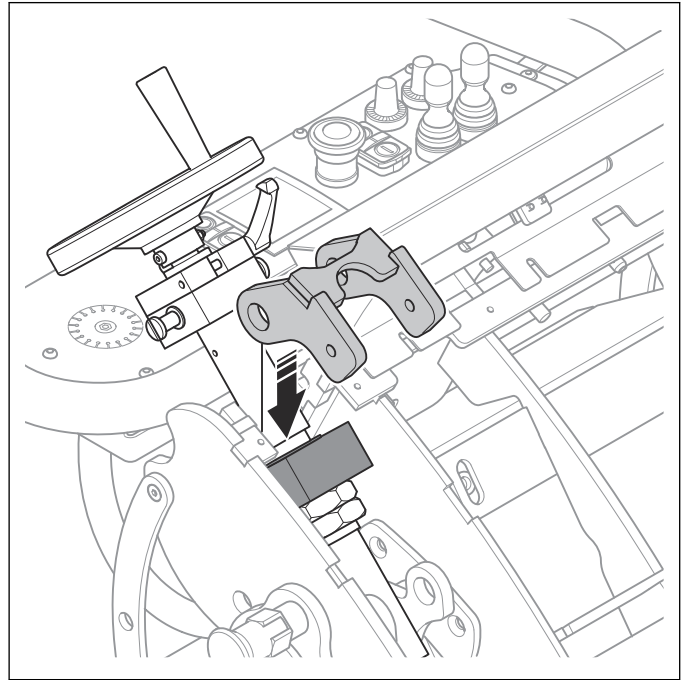
1. Apply SKF bearing grease to the threads.



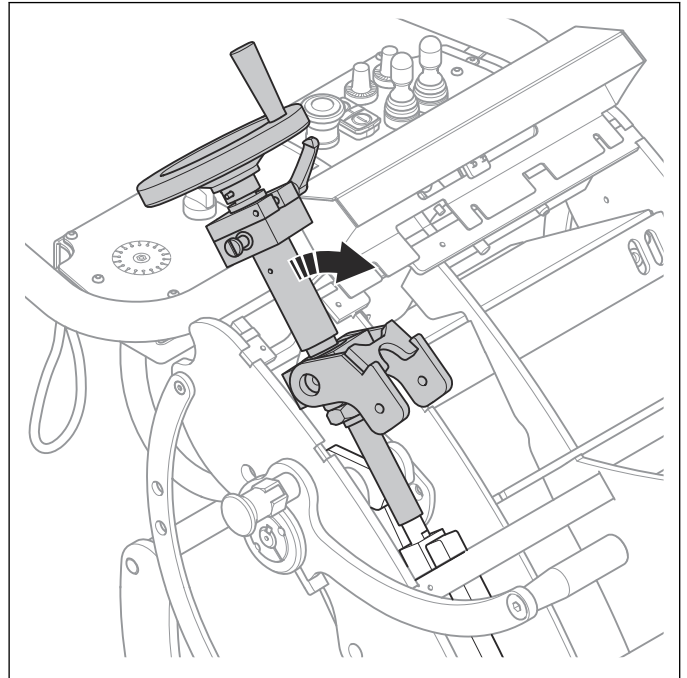
2. Install the adjustment assembly. Turn the wheel to attach it to the screw rod.



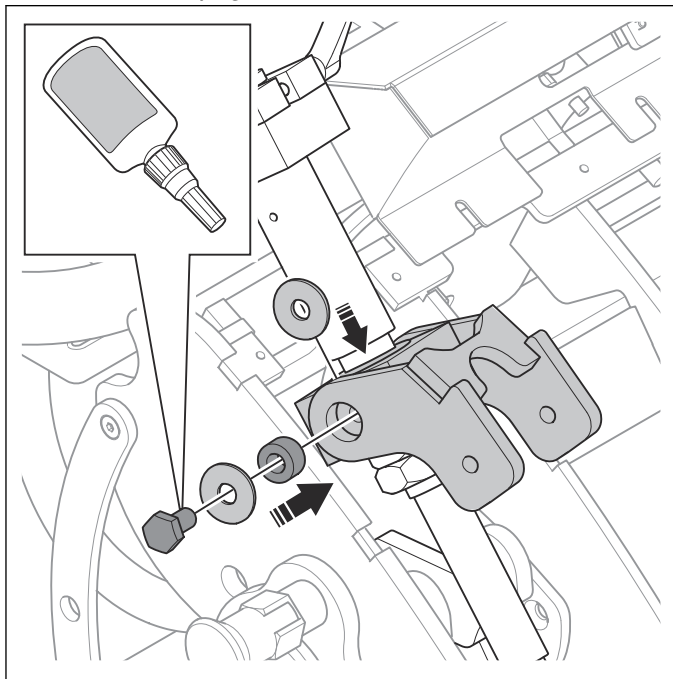
3. Install the height lever bracket.



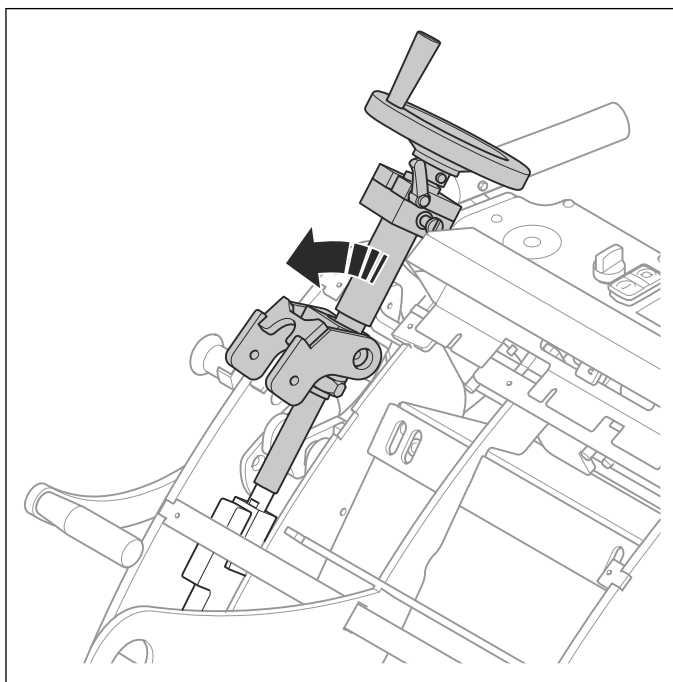
4. Turn the top height lever assembly to the side.



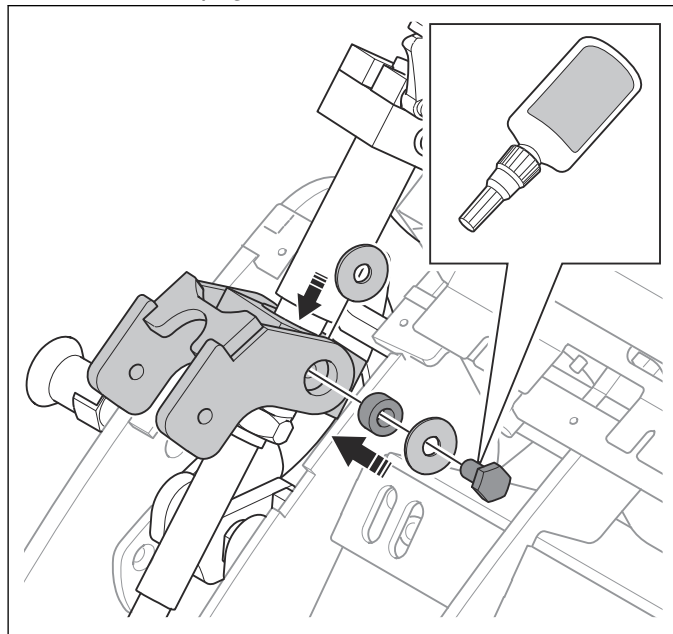
5. Install the new washers, bushing and the bolt. Apply Loctite 603 to the bolt. Refer to *Servicing tools overview on page 9*.



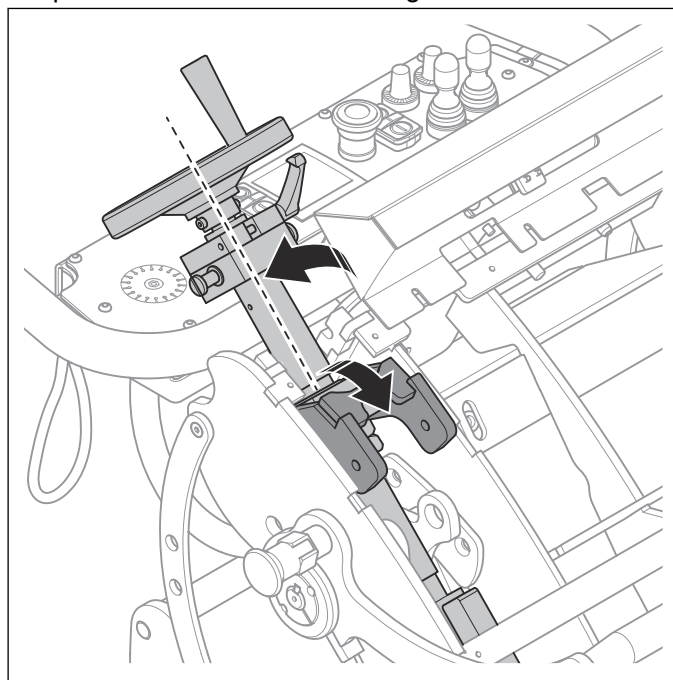
6. Turn the top height lever assembly to the opposite side.



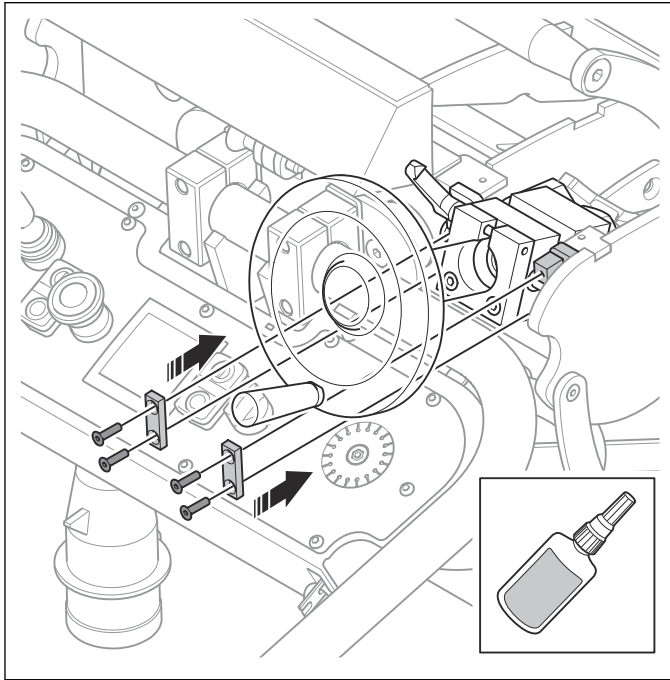
7. Install the new washers, bushing and the bolt. Apply Loctite 603 to the bolt. Refer to *Servicing tools overview on page 9*.



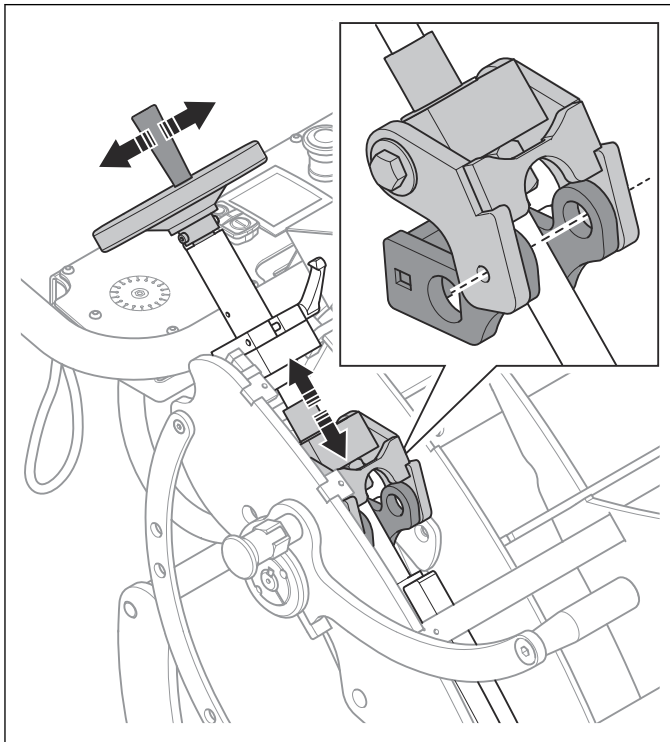
8. Turn the top height lever assembly to the central position and fold down the height lever bracket.



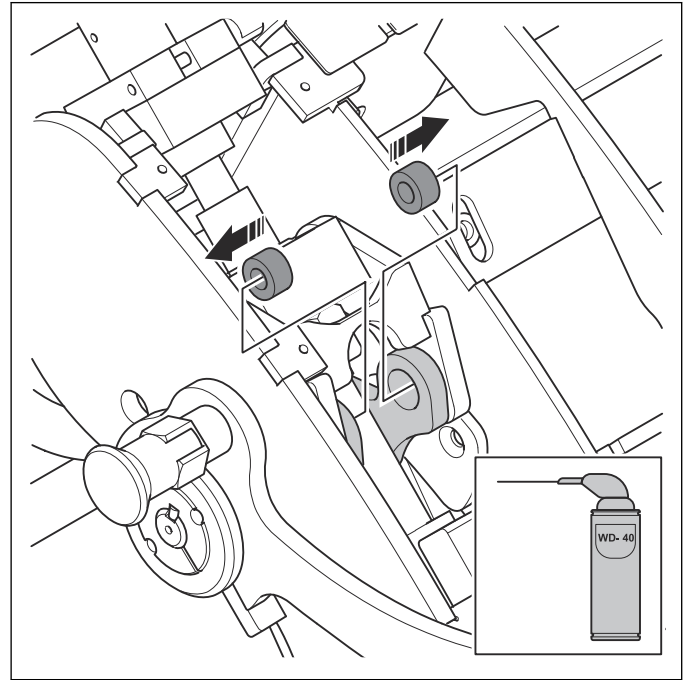
9. Apply Loctite 243 to the 4 screw holes. Install the 2 top parts of the pipe clamps and the 4 screws. Tighten the 4 screws to the correct torque. Refer to *Tightening torques on page 5*.



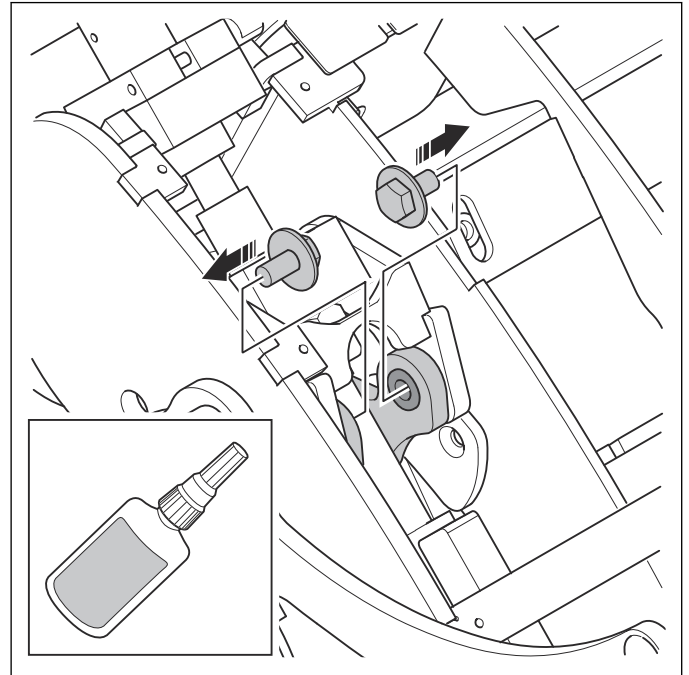
10. Move the steering wheel until the height lever is aligned with the bracket.



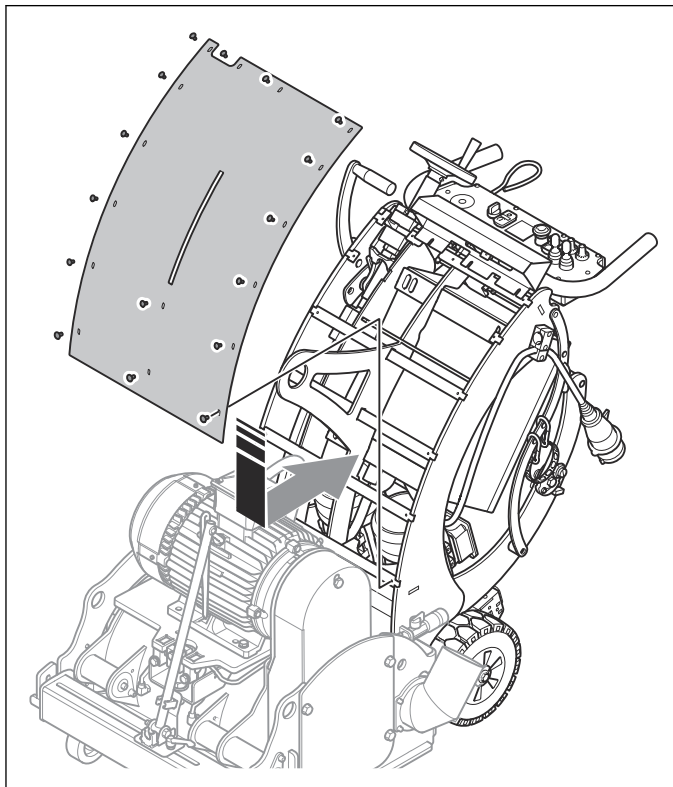
11. Apply grease to the bushes and install them.



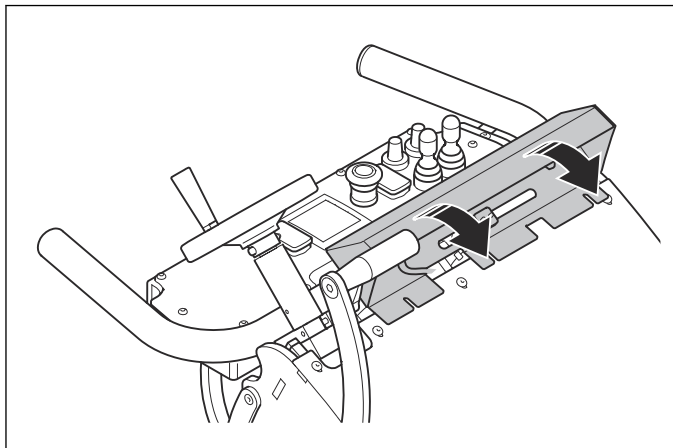
12. Apply Loctite 603 and install the bolts. Refer to *Servicing tools overview on page 9*.



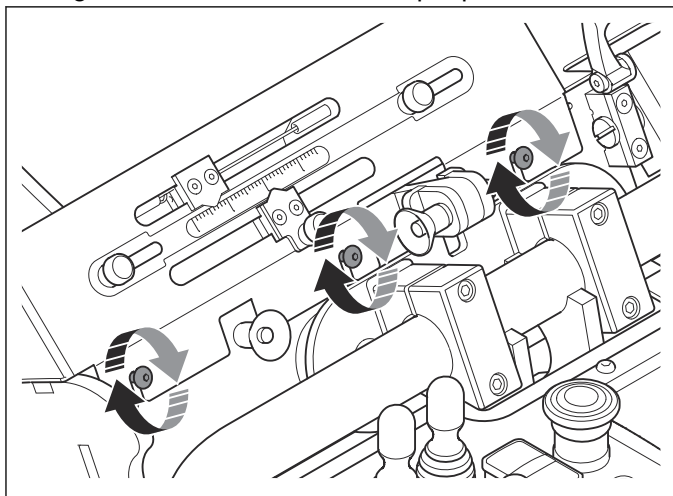
13. Install the front plate, the 16 screws and the spring lock washers.



14. Move the depth plate into position.

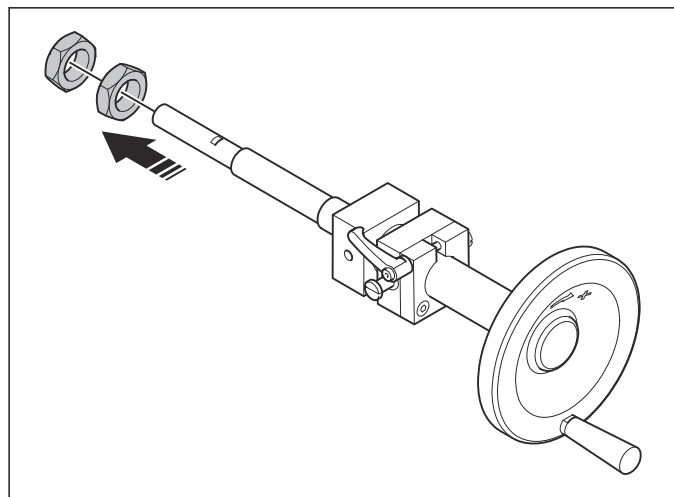


15. Tighten the 3 screws for the depth plate.

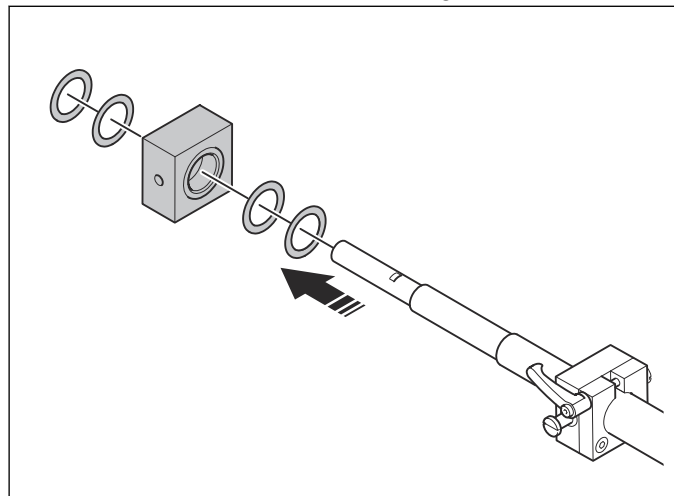


6.5.3 To disassemble the steering wheel

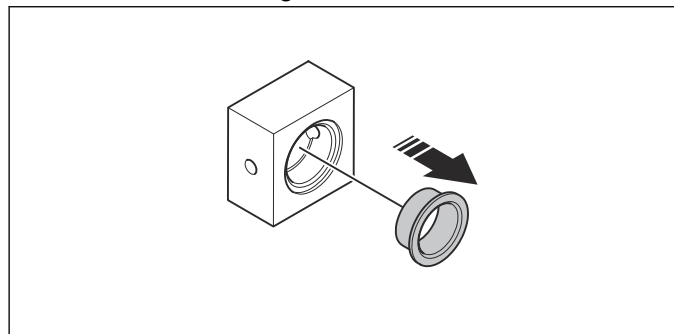
1. Remove the 2 nuts.



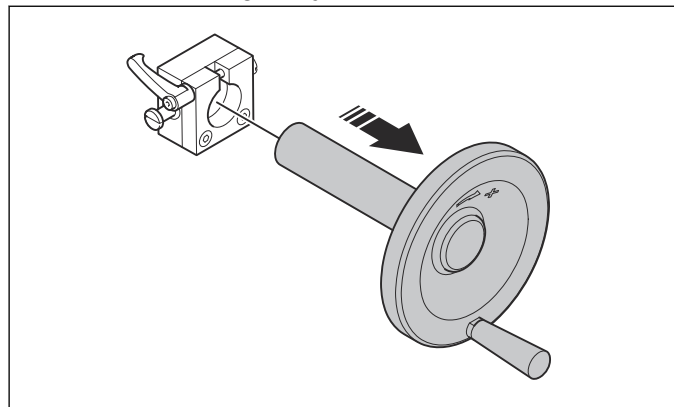
2. Remove the shims and the sliding block.



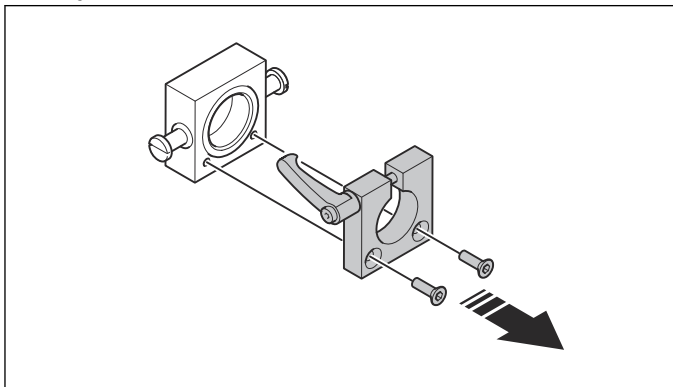
3. Remove the bearing.



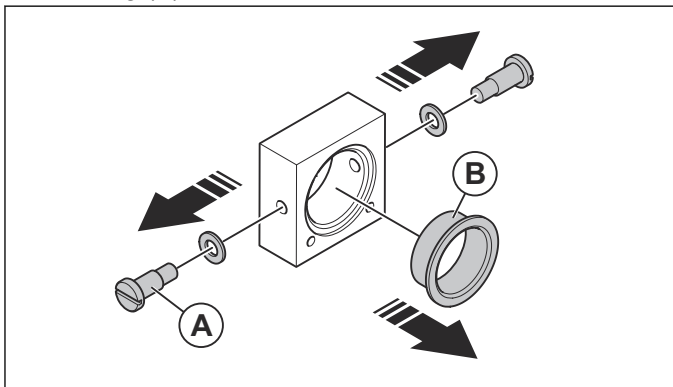
4. Remove the height adjustment block.



5. Remove the 2 screws and the top part of the height adjustment block.

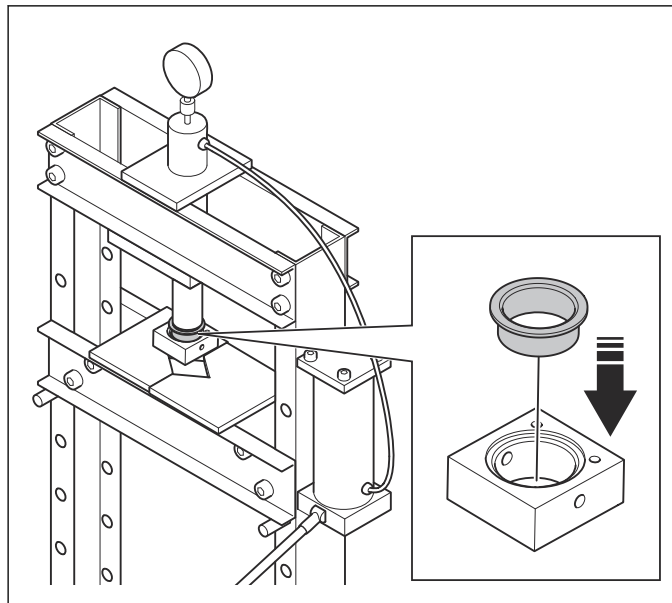


6. Remove the 2 screws (A), the 2 washers and the bearing (B).

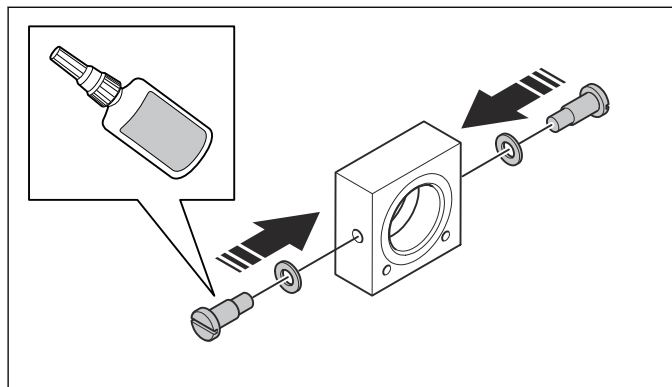


6.5.4 To assemble the steering wheel

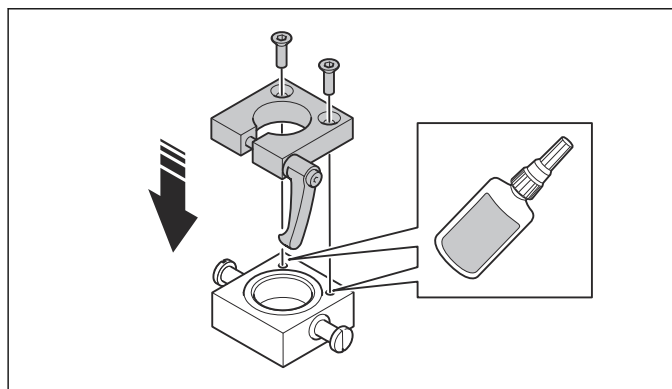
1. Install the bearing with a press tool. Use a maximum force of 25 kN.



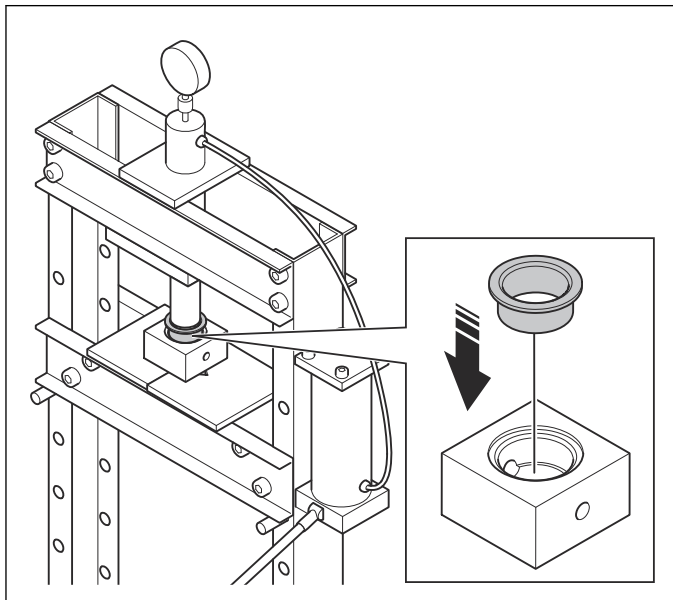
2. Apply Loctite 243 to the 2 screws. Install the 2 washers and the 2 screws.



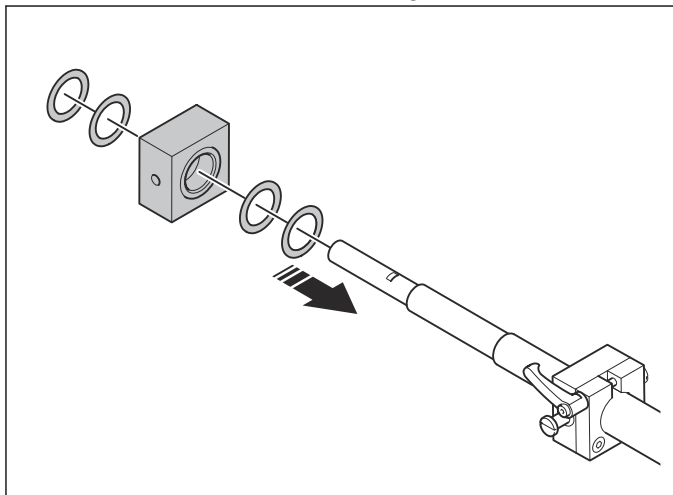
3. Apply Loctite 243 to the 2 screw holes. Install the 2 screws and the top part of the height adjustment block.



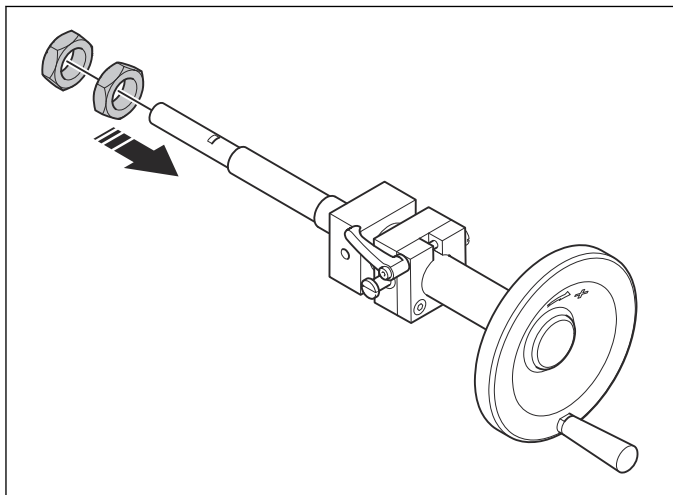
4. Install a new seal with a press tool. Use a maximum force of 25 kN.



5. Install the shims and the sliding block.

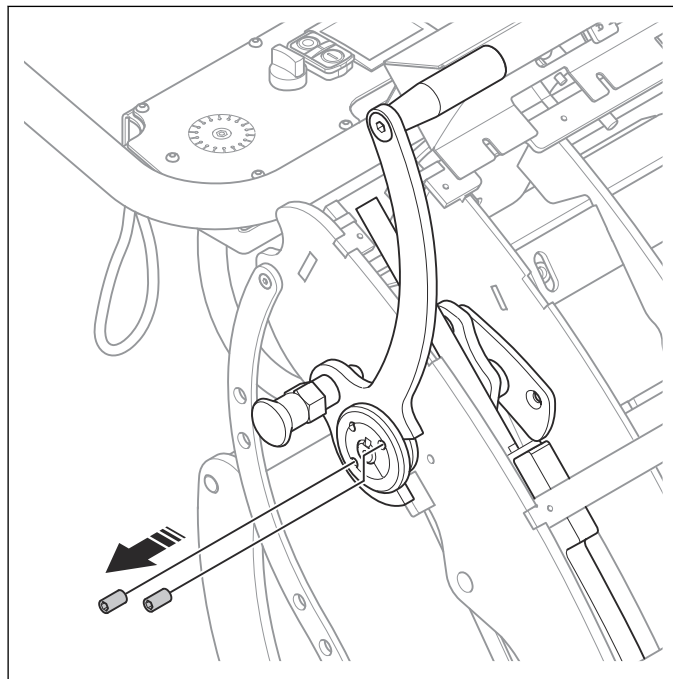


6. Install the 2 nuts.

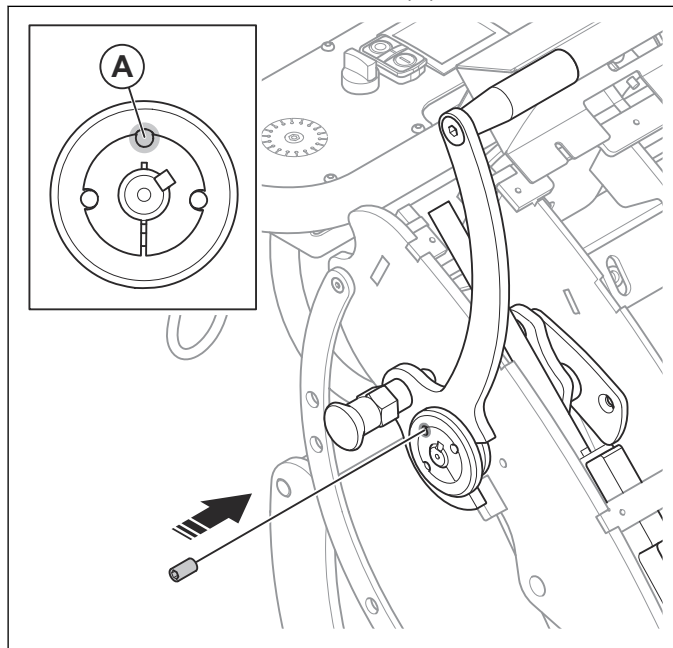


6.6 To disassemble the height adjustment lever

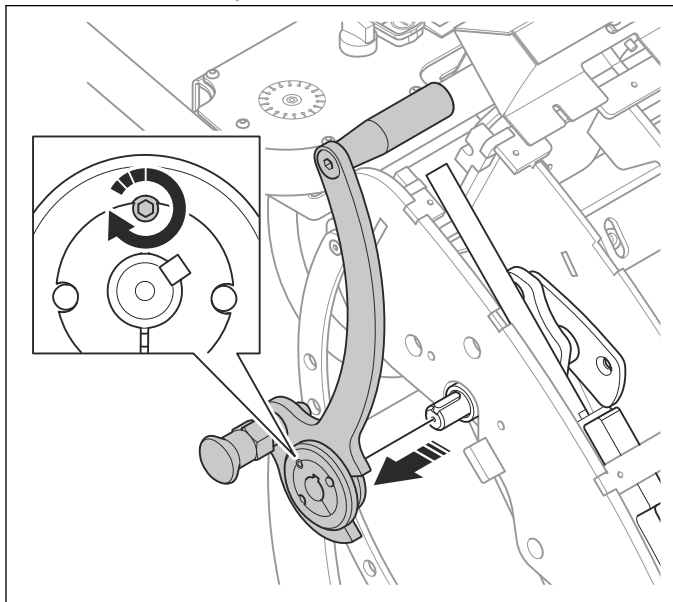
1. Remove the steering wheel. Refer to *To remove the steering wheel on page 50*.
2. Remove the 2 screws.



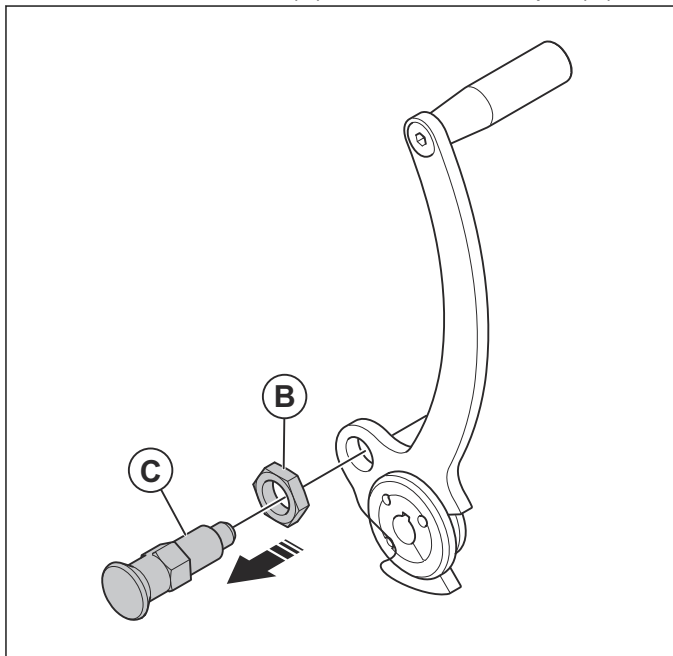
3. Install 1 of the screws in hole (A).



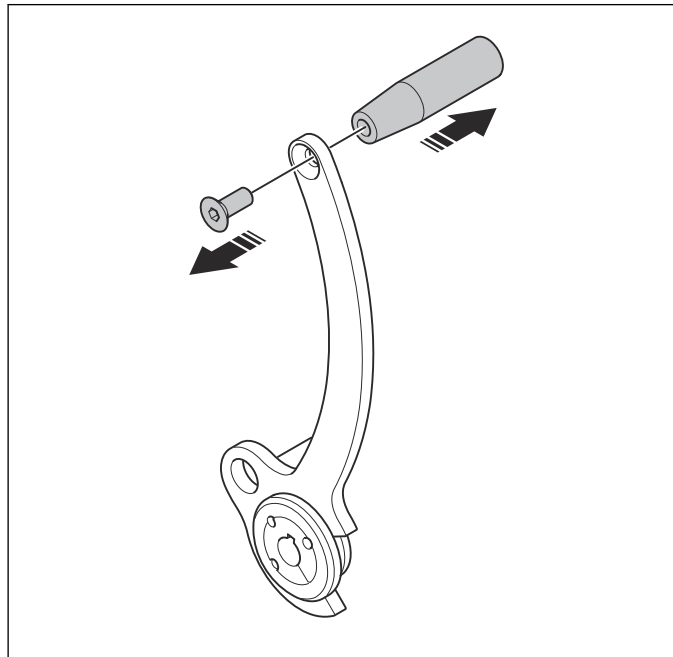
4. Tighten the screw to push out the height adjustment lever and the taper lock.



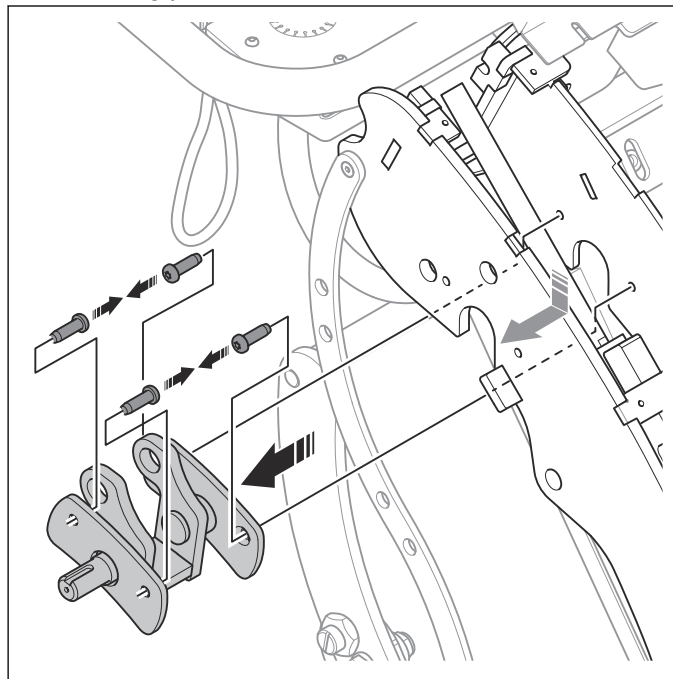
5. Loosen the lock nut (B) and unscrew the pin (C).



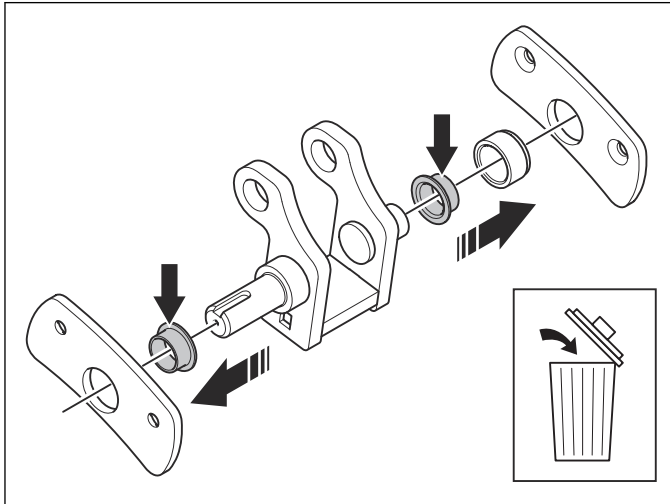
6. Remove the screw and the handle.



7. Remove the 4 screws and the height lever and the mounting plates.

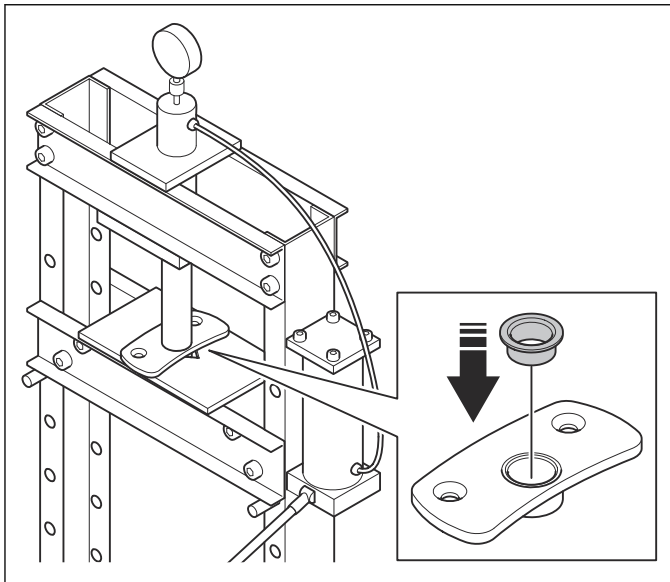


8. Remove the bushings.



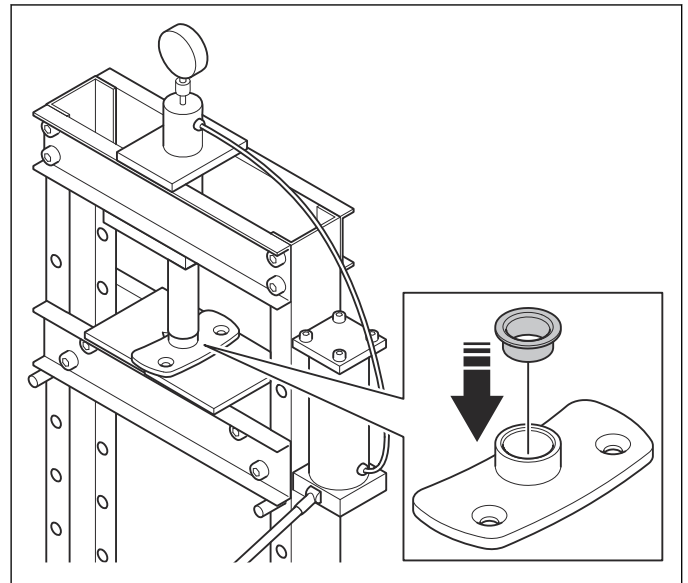
6.7 To assemble the height adjustment lever

1. Install the bushing to the right mount plate with a press tool. Use a maximum force of 25 kN.



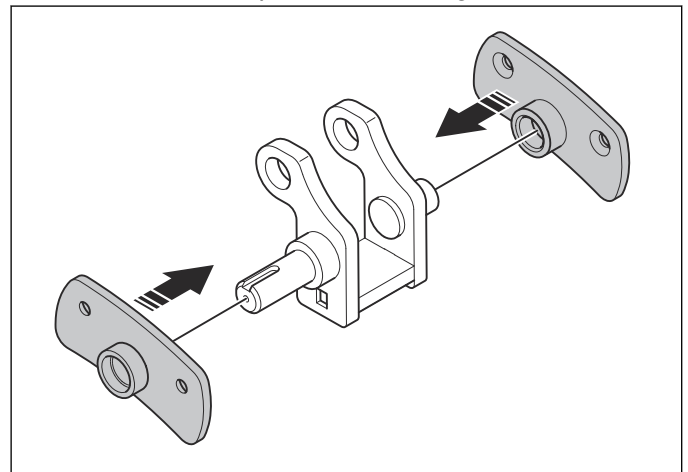
Note: Make sure that you install the bushing on the correct side of the mount plate.

2. Install a new bushing to the left mount plate with a press tool. Use a maximum force of 25 kN.



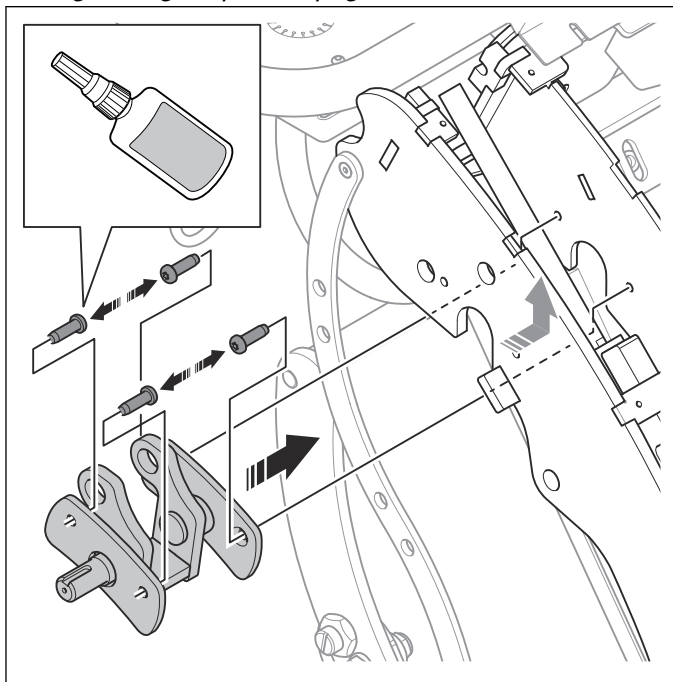
Note: Make sure that you install the bushing on the correct side of the mount plate.

3. Install the mount plates on the height lever bracket.

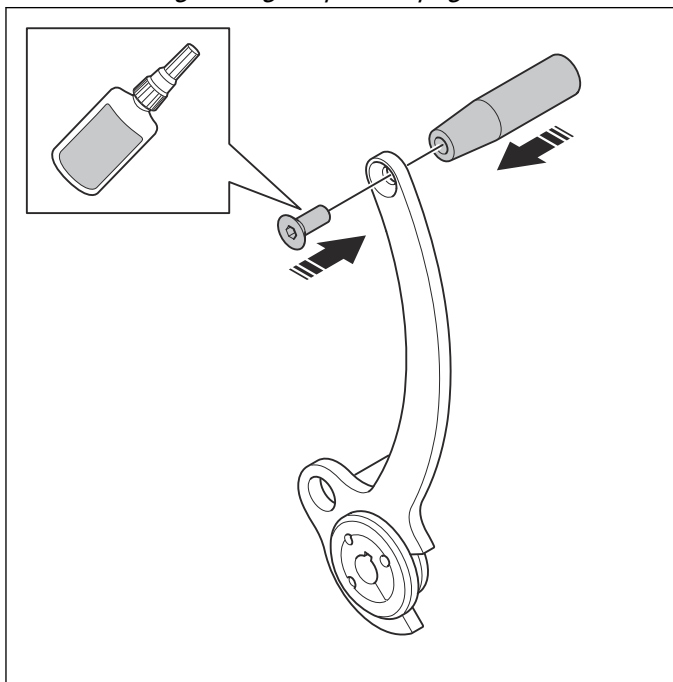


Note: Make sure that you install the mount plates on the correct side of the height lever bracket.

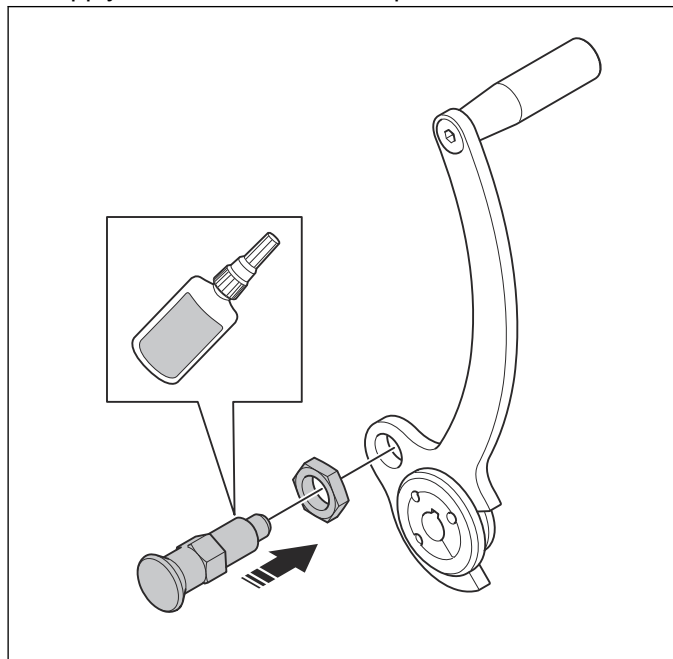
4. Apply Loctite 243 to the 4 screws. Install the 4 screws and the height lever bracket assembly. Tighten the screws to the correct torque. Refer to *Tightening torques on page 5*.



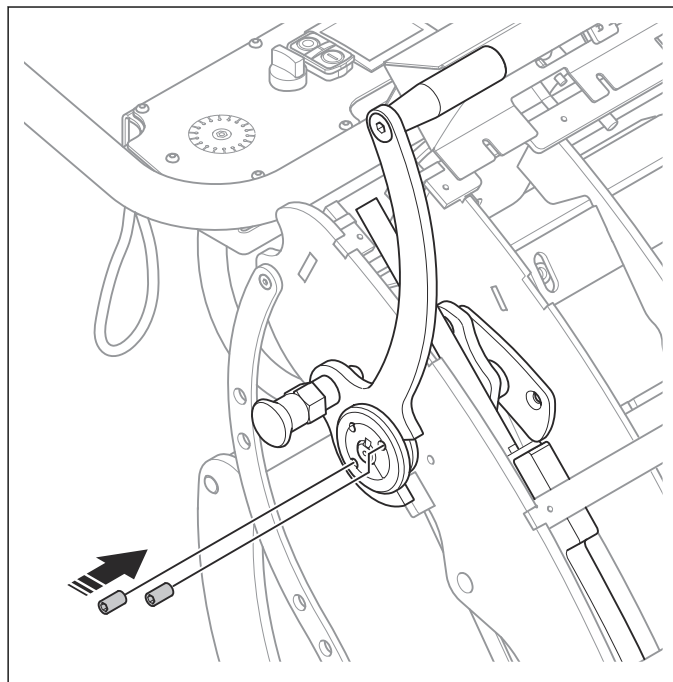
5. Apply Loctite 243 to the screw. Install the screw and the handle. Tighten the screw to the correct torque. Refer to *Tightening torques on page 5*.



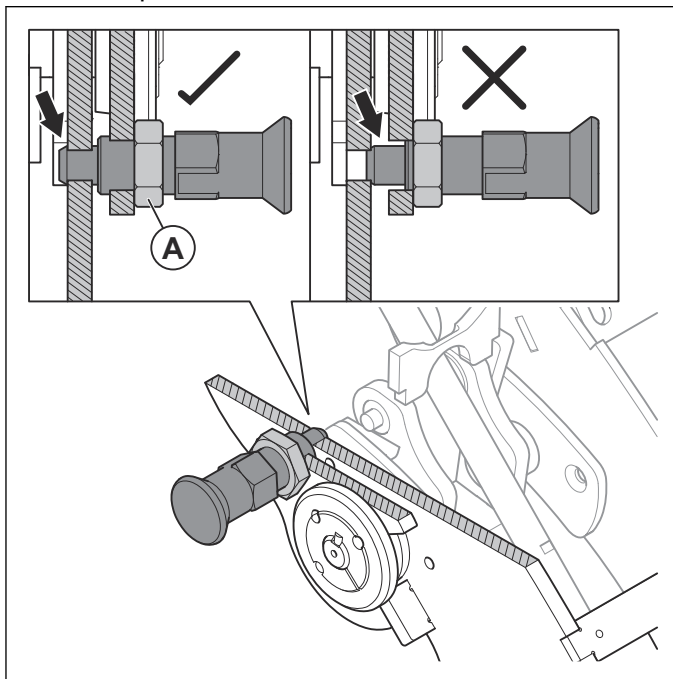
6. Apply Loctite 243 to the lock pin and install it.



7. Install the 2 screws. Tighten the screws to the correct torque. Refer to *Tightening torques on page 5*.

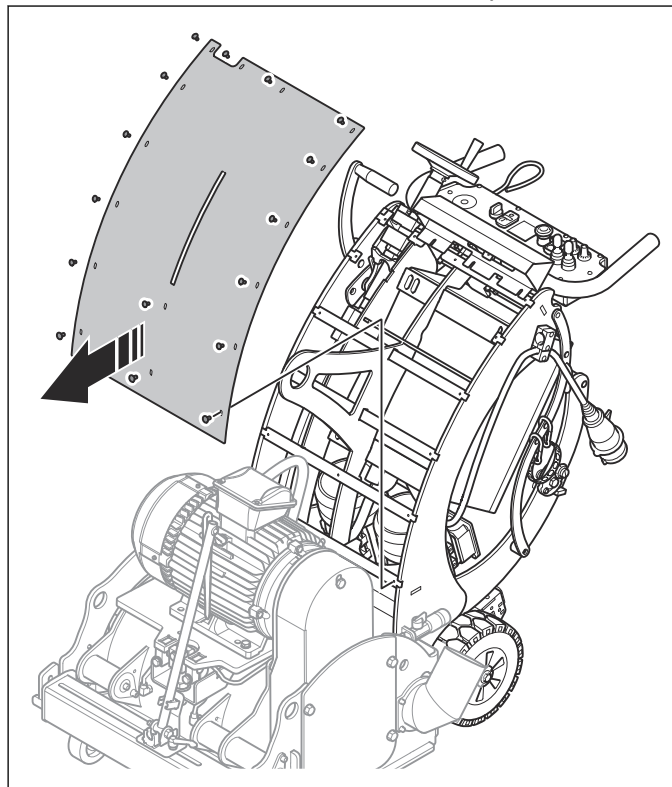


8. Do a check of the lock pin. Make sure that it reaches the hole in the frame. Adjust it if it is necessary. Tighten the lock nut (A) when the lock pin is in the correct position.

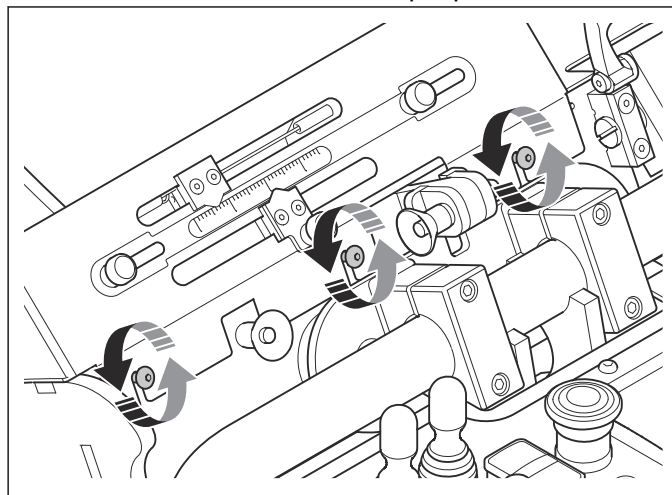


6.8 To replace the cable for the depth indicator

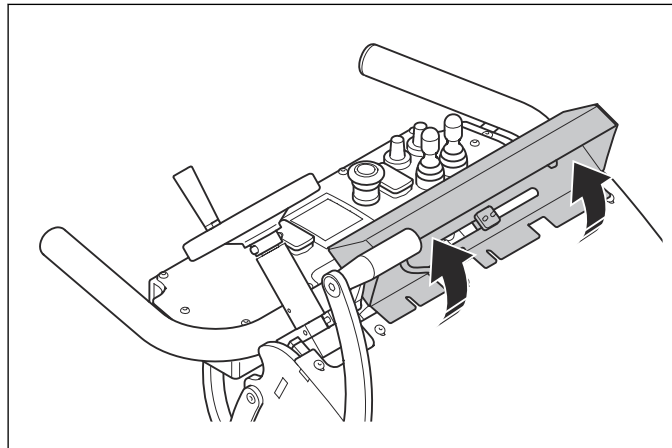
1. Remove the 16 screws and the front plate.



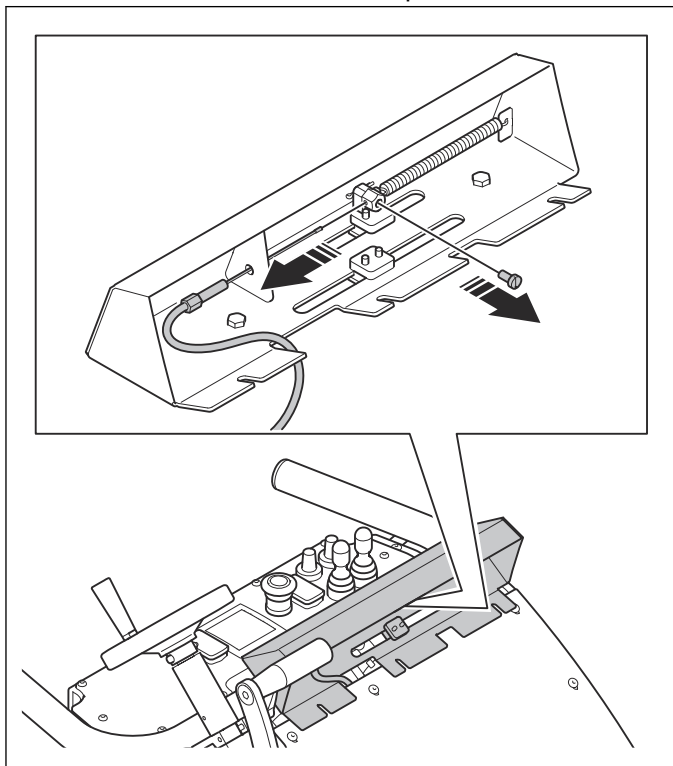
2. Loosen the 3 screws to the depth plate.



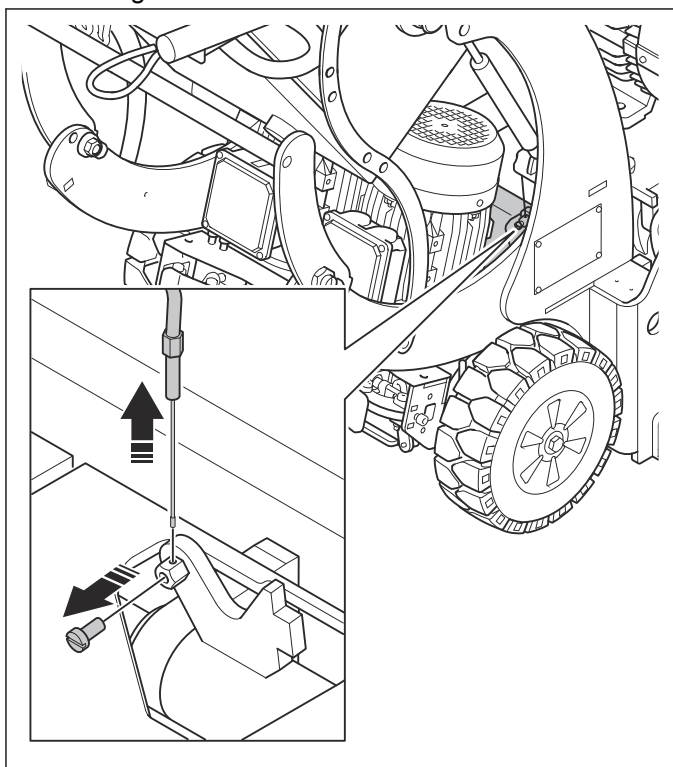
3. Turn the depth plate up against the control panel.



4. Remove the screw and the depth indicator cable.



5. Remove the screw and the depth indicator cable at the height bracket.



6. Install in the opposite sequence.

7 Troubleshooting

Problem	Cause	Solution
Too much vibration and/or unusual noises.	The tools are worn or damaged.	Replace parts that are worn or damaged.
	The bearing is damaged.	Do a check of the bearing on the axle drive shaft and replace if it is necessary.
	Incorrect tension of the drive belt.	Do a check of the drive belt tension. Refer to <i>To adjust the V-belt tension on page 17</i> .
	The motor is damaged.	Replace the motor.
	The tool drum is set to too much operation depth.	Decrease the operation depth.
Decreased or no performance.	The tools are worn or damaged.	Replace the worn parts.
	The type of tools is incorrect for the surface.	Replace the tools with correct tools for the surface.
The motor does not start.	A phase of the power supply is missing.	Do a check of the power supply.
	A phase of the power supply is incorrect.	Adjust the phase.
	The emergency stop button is engaged.	Turn the emergency stop button clockwise to disengage.
	There is no power in the drive system.	Start the drive system, then start the drum motor.
	A component is damaged.	Replace the damaged component.
	The OPC is not installed.	Install the OPC.
	The extension cable is disconnected or damaged.	Connect the extension cable or if it is necessary, replace the extension cable.
The product stops after a while.	The motor protection switch releases because of overload.	Decrease the cutting depth.
	The motor is damaged.	Do a check of the motor.
The drive system does not operate correctly.	The drive system pedals are not engaged.	Push the drive system pedals in.

8 Technical data

	3x400V, 50 Hz	3x480V, 60 Hz
Motor power, kW/Hp	15+1.1/20.11+1.48	
Electrical connection, V	3x400	3x480
Frequency, Hz	50	60
Power connector, pole/A	5/63	
Amperage consumption, A	27.4+3.4	
Operation width, mm/in.	335/13.2	
Rotation speed of diamond blade drum, min ⁻¹	3000	3600
Rotation speed of scarifier drum, min ⁻¹	1000	
Bearing grease type	E08729	
BMC 335: Weight excl. drum, kg/lbs	430/947.9	
BMC 335: Weight incl. full drum with blades, kg/lbs	493/1086.8	
: Weight excl. drum, kg/lbs	432/952.3	
: Weight incl. full drum with blades, kg/lbs	495/1091.2	
Noise emission level ¹	83	
Sound power level ²	102	
Vibration level (Handle), m/s ² , ³	2.3	
Ambient temperature, °C/°F	-5-40/23-104	
Diameter dust hose connection, mm/in.	100/3.94	
Driving speed, m/min/ft/min	0.5-11.6/1.6-38	

Note: If your product requires an electrical specification that is not in the table, speak to a Husqvarna service agent for more information.

¹ Uncertainty 3 dB(A).

² Uncertainty 3 dB(A).

³ Uncertainty 1.5 m/s²



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