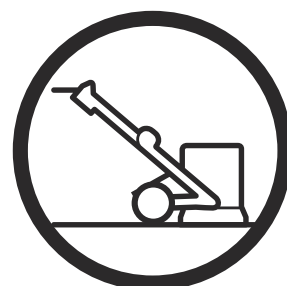


Workshop manual

PG 830 P



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.

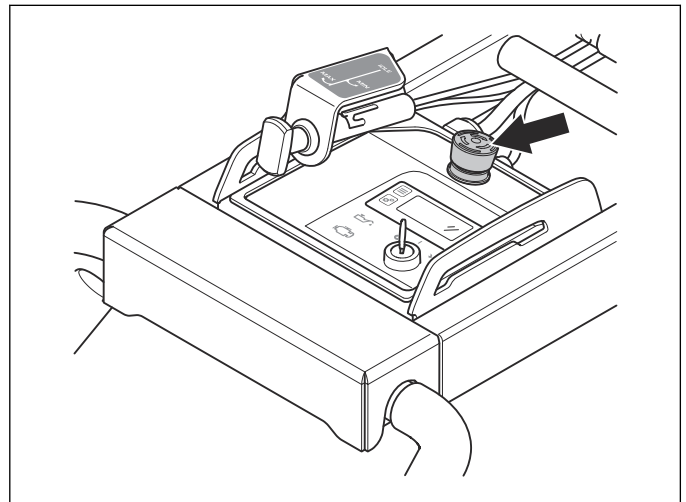
Note: Used to give more information that is necessary in a given situation.

2.2 General safety instructions

- Read and obey this workshop manual.
- Obey the local safety regulations when you repair or do servicing of the product.
- The safety equipment you use must obey 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 ANSI Z87.1 for US or EN166 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 in an environment where there is a risk of explosion or fire.
- Make sure that there are fire extinguishers near the work area.
- If possible, keep the propane cylinder disconnected when you repair or do servicing of the product.
- Do not operate the product if the propane cylinder is damaged.
- Do checks of the product for warning labels that are damaged. Replace the warning labels that are damaged.
- Always read the warning labels of product supplies.

2.3 Special safety instructions

The product has an emergency stop button.



2.4 Symbols on the product



WARNING: This product can be dangerous and cause 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.



Use hearing protection, eye protection and respiratory protection.



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



Propane is very flammable and explosive.



Do not clean the carbon monoxide detector with water or use water near the detector.



Always lift the product at the lifting eye.



Use the holes for tie-down straps to attach the product to a transport vehicle.



The product is not domestic waste.
Recycle it at an approved disposal
location for electrical and electronic
equipment.



This product is in compliance with
applicable EU directives.

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

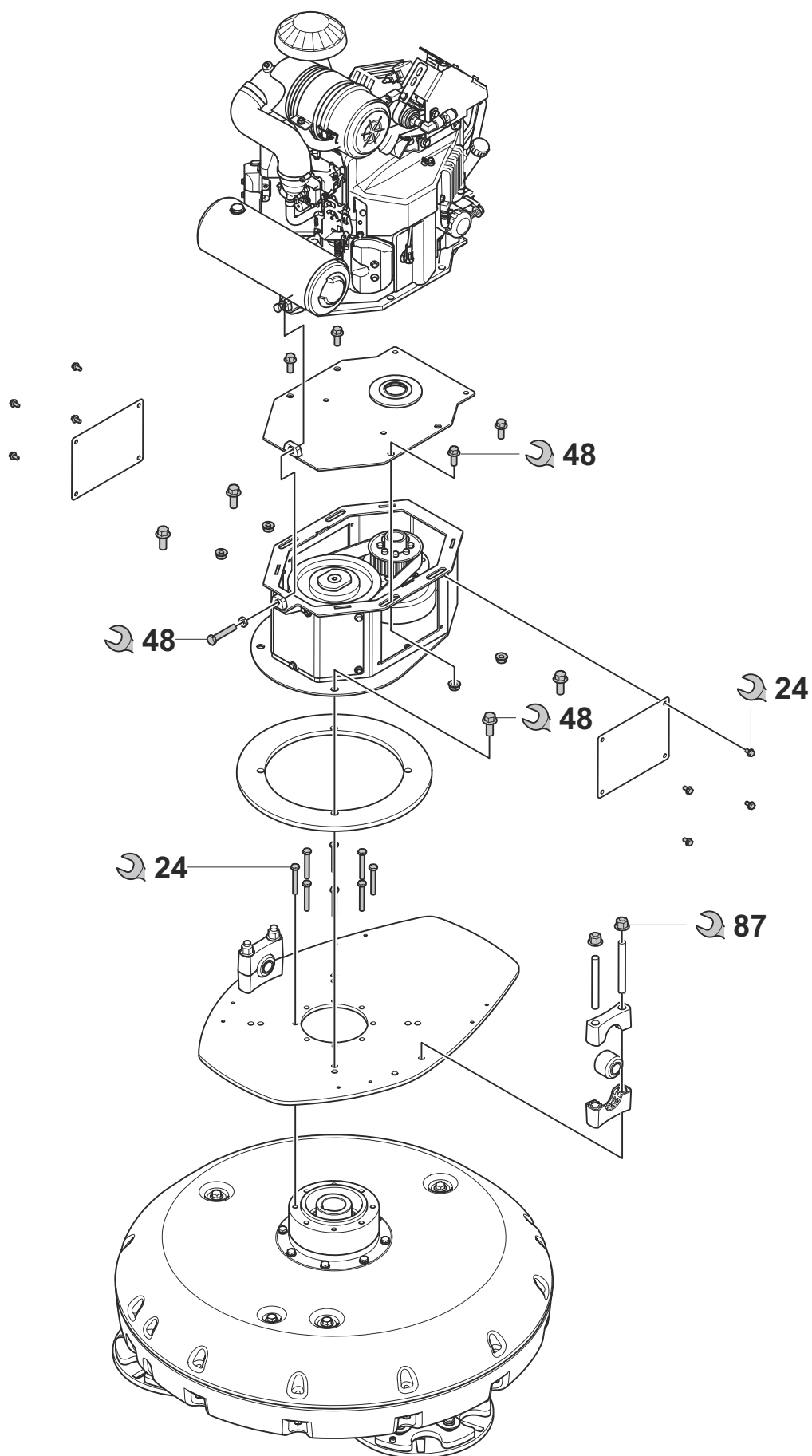
3 Servicing data

3.1 Symbols in the diagrams

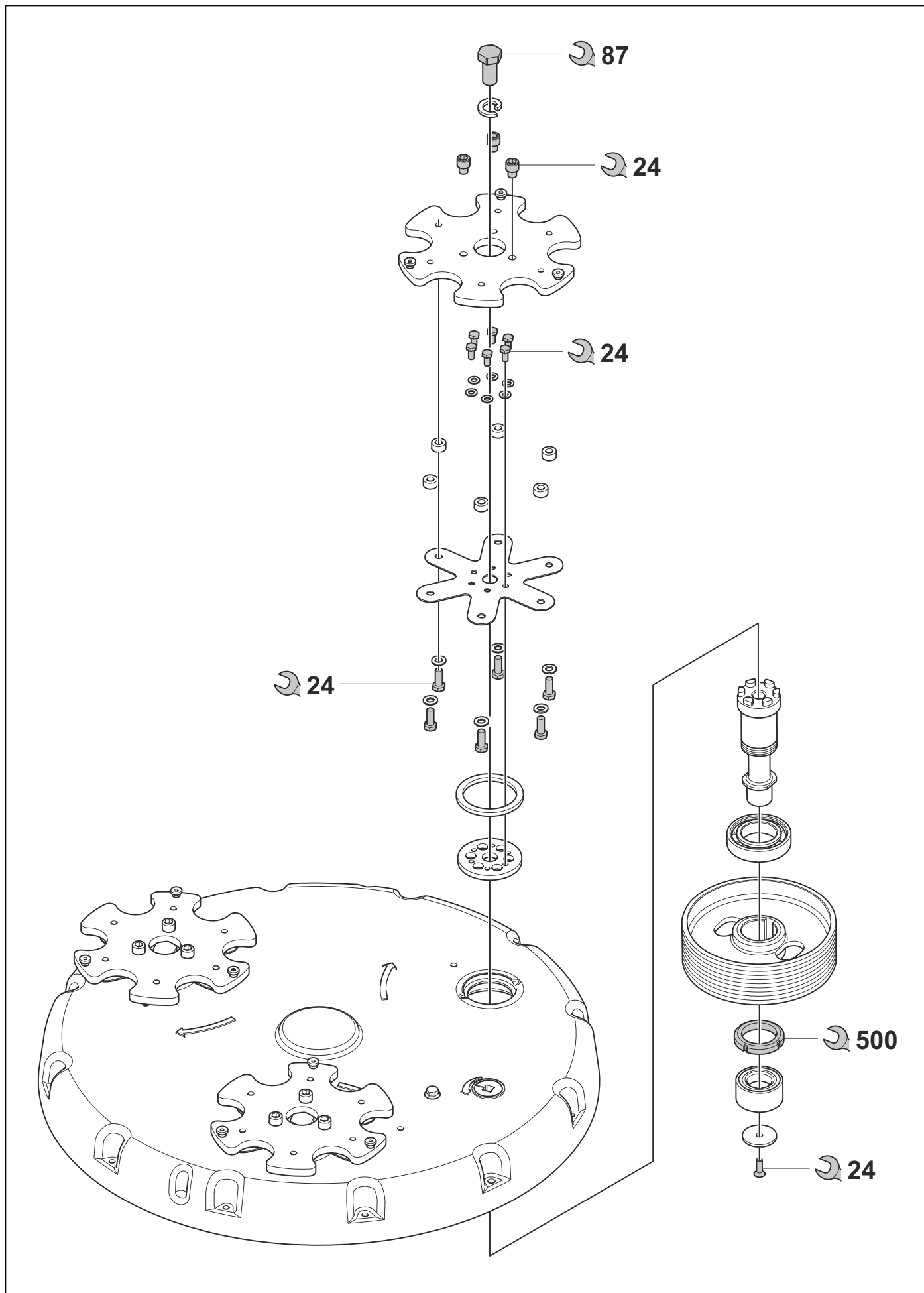


Tightening torque, Nm

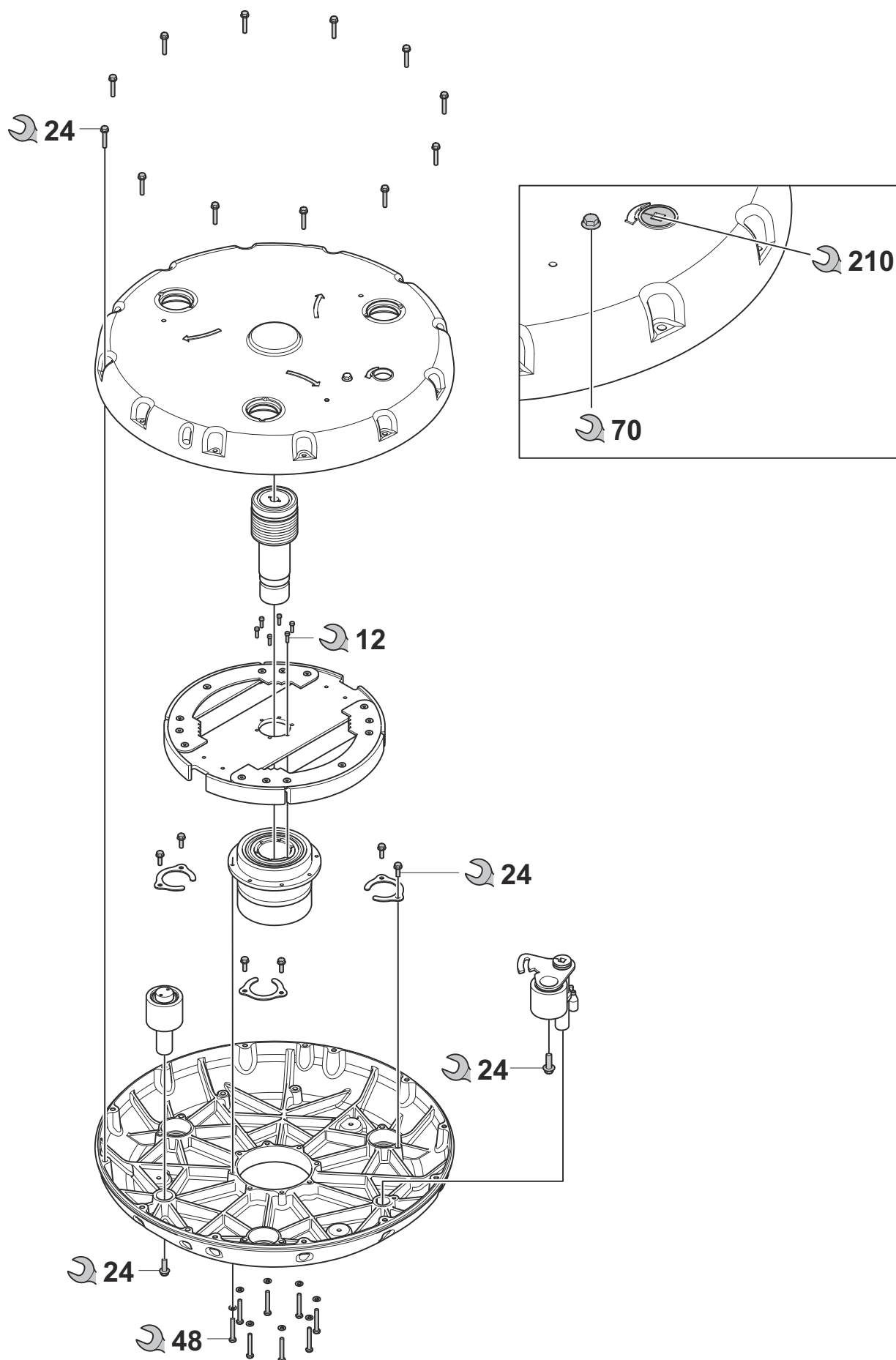
3.2 Tightening torques engine



3.3 Tightening torques grinding head



3.4 Tightening torques grinding head



4 Servicing schedule

* = General maintenance. The instructions are not given.

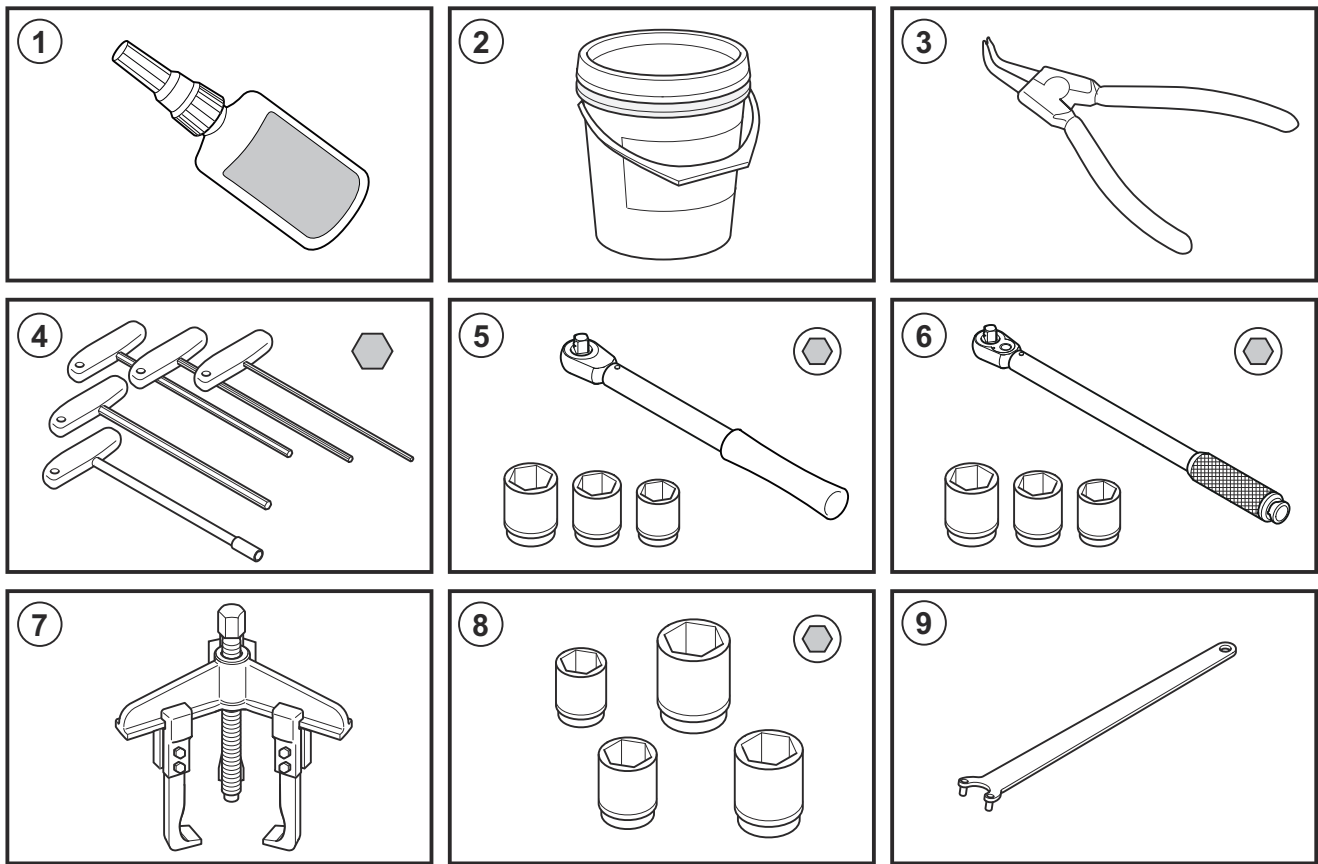
O = The instructions are given in this workshop manual.

X = The instructions are given in the operator's manual.

Maintenance	Daily	Weekly	Every 100 h	Each 12 months or 250 h
Do a check of the ignition lock.	*			
Do a check of the throttle control.	*			
Do a check of the emergency stop button.	X			
Clean the external surfaces of the product.	X			
Do a check of the oil cooling fins. If it is necessary, clean the oil cooling fins.	X			
Do a general inspection.	X			
Do a check of the grinding discs.	X			
Examine the propane tank and all lines for leaks.	X			
Do a check of engine oil level.	X			
Do a check of the attachment points and the lock function for the handle.		*		
Do a check of the attachment points and the lock function for the weights.		*		
Do a check of the connection between chassis and grinding head.		*		
Do a function check of the drive system for the grinding head.		X		
Replace the filter in the carbon monoxide detector.			X	
Replace the engine oil.			X	
Replace the oil filter.			X	
Replace the air filters.			X	
Examine the spark plug.			X	
Do the service on the drive system for grinding discs.				O

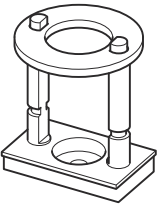
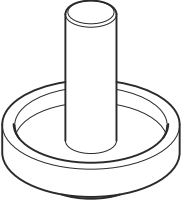
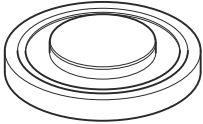
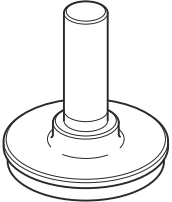


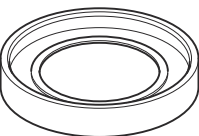
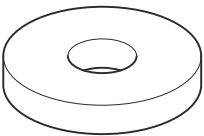
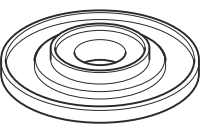
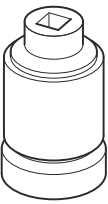
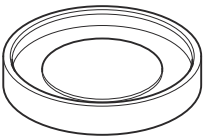
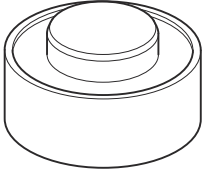
5 Servicing tools

5.1 Servicing tools overview

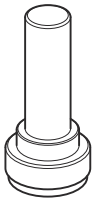
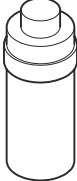
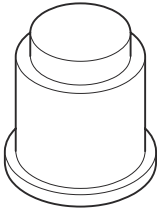
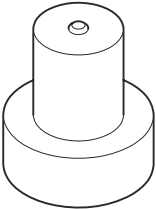
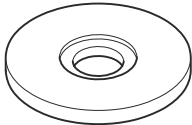
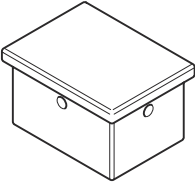
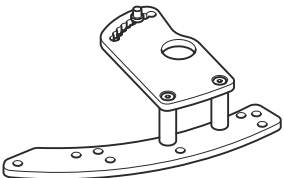
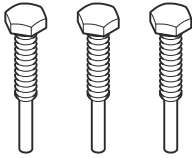
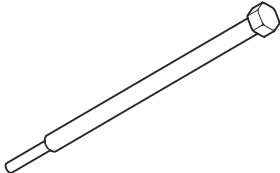
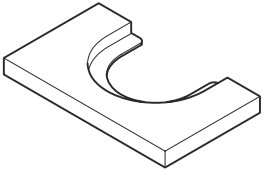
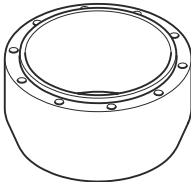
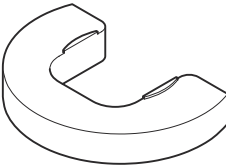


Position	Designation	Used for	Order No./Source
1	Adhesive for threads	–	Amprobe 37XR-A
2	Grease	To assemble the motor and grinding head.	Loctite 243
3	Circlip pliers	General	–
4	Hex key, kit 2.5 - 10 mm	General	525 45 52-01
5	Socket wrench	General	531 11 95-32
6	Torque wrench 11- 110 Nm	General	–
7	Inner puller	To remove the bearing housing from the motor plate	There are many manufacturers, for example, KUKKO.
8	Socket 8-18mm	General	–
9	Pin wrench	To remove the motor from the grinding head.	593 63 27-01

5.2 Servicing tools overview

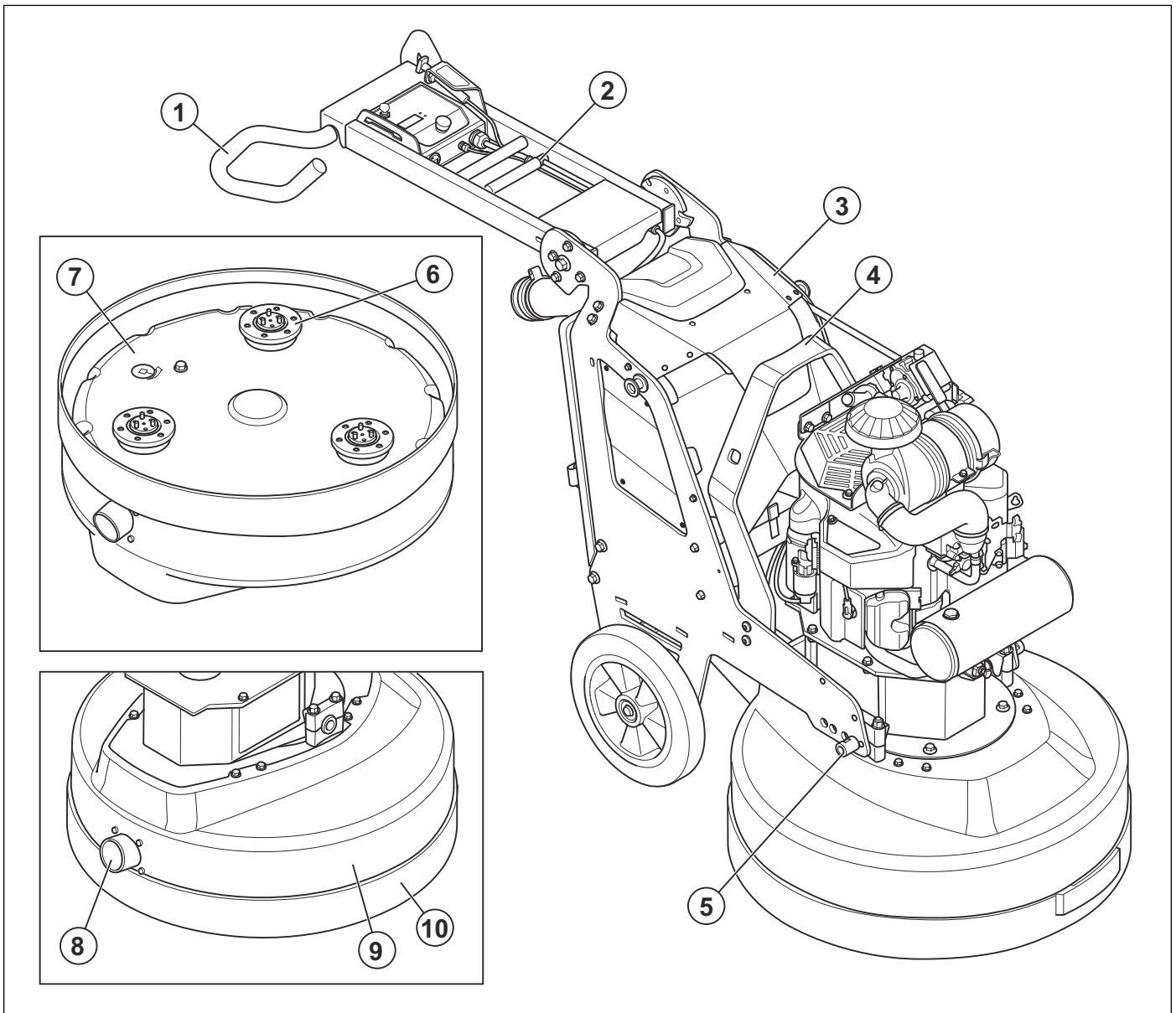
		
		
		
		
Position	Designation	Order No./Source
1	Hub pulley tool	593 53 68-01
2	Press tool for the inner hub	593 54 09-01
3	Press tool for the outer center hub	595 75 94-01
4	Press tool for the radial seal	593 54 11-01
5	Press tool for the upper center hub	593 54 12-01
6	Press fixture for the center hub	593 54 13-01
7	Press tool for the center pulley	593 54 14-01
8	Press tool for the hub assembly	593 54 15-01
9	Press fixture for the hub assembly	593 54 16-01
10	Socket KM 10 clearance 90	593 54 17-01
11	Press tool for the hub	593 54 18-01
12	Press tool for the idler	593 54 19-01

5.3 Servicing tools overview

		
		
		
		
Position	Designation	Order No./Source
13	Press tool for the radial seal	593 54 21-01
14	Press tool for the center hub	593 54 40-01
15	Press tool for the center pulley	593 54 41-01
16	Press tool for the hub assembly	593 54 42-01
17	Support for the hub assembly tool	593 54 43-01
18	Tilt support	593 58 41-01
19	Belt tension fixture	593 58 40-01
20	Tool used to disassemble the grinding head	593 54 45-01
21	Removal tool for the motor	595 76 16-01
22	Press tool for the hub assembly	593 54 30-01
23	Support cone for the center hub assembly	593 54 51-01
24	Fixture for the center pulley bearing	593 54 52-01

6 Product overview for repair and servicing

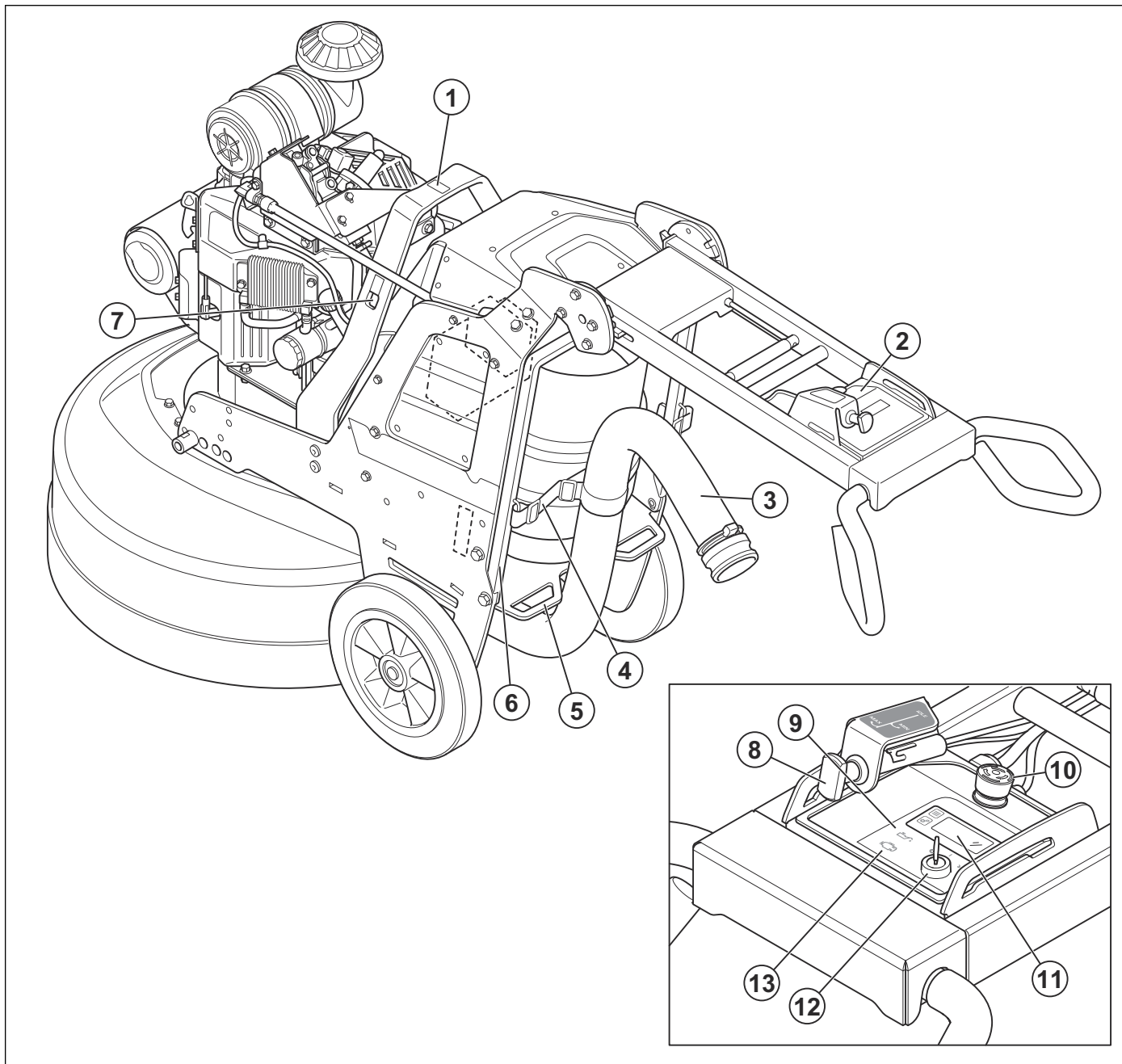
6.1 Component overview



1. Handlebar
2. Handlebar adjustment
3. Electrical enclosure
4. Lifting eye
5. Lock bolt, attaches the motor and grinding head
6. Grinding disc

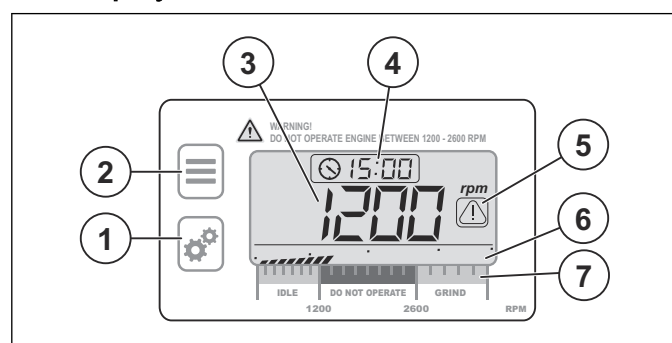
7. Grinding head
8. Connection for dust extractor
9. Cover
10. Dust skirt

6.2 Component overview



1. Lifting eye
2. Control panel
3. Connection for dust extractor
4. Suspension device for dust extractor
5. Propane tank holder
6. Support frame
7. Holes for straps
8. Throttle control
9. Indicator for oil pressure
10. Emergency stop button
11. Display
12. Ignition key
13. Indicator for check engine

6.3 Display overview



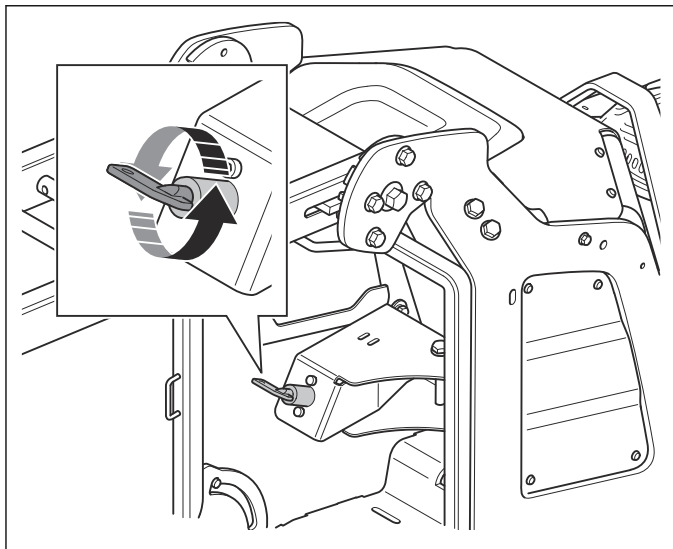
1. Set button
2. Menu button
3. Rpm for the engine
4. Clock
5. Warning
6. Gauge for the rpm for the engine
7. Rpm for the engine

7 Repair and servicing

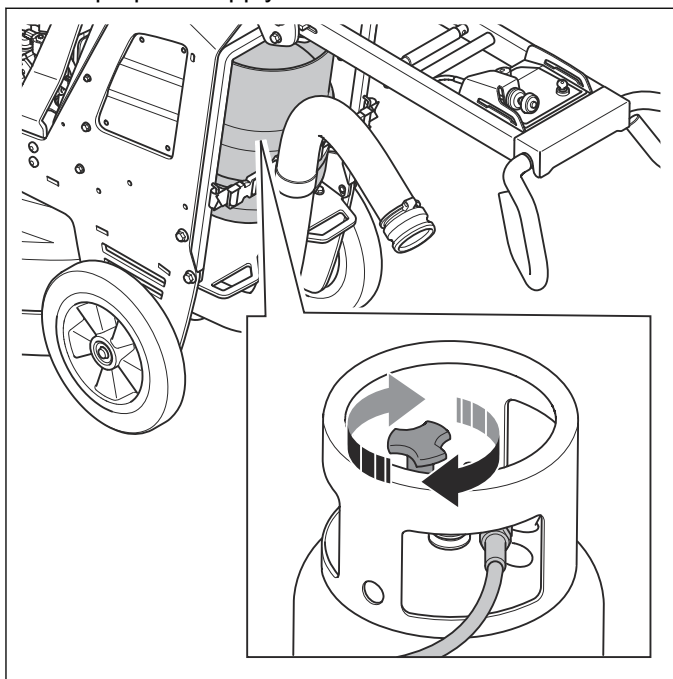
7.1 Engine

7.1.1 To remove and install the engine, clutch, and grinding head from the frame

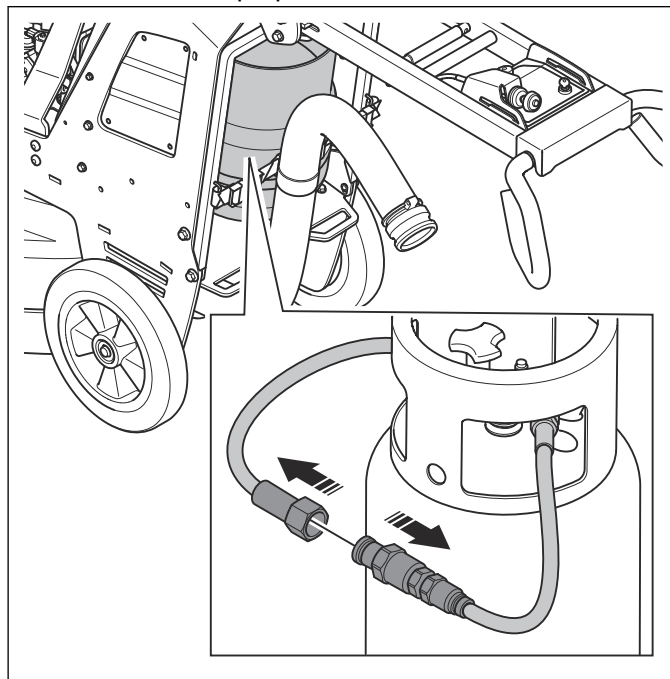
1. Turn the main switch counterclockwise.



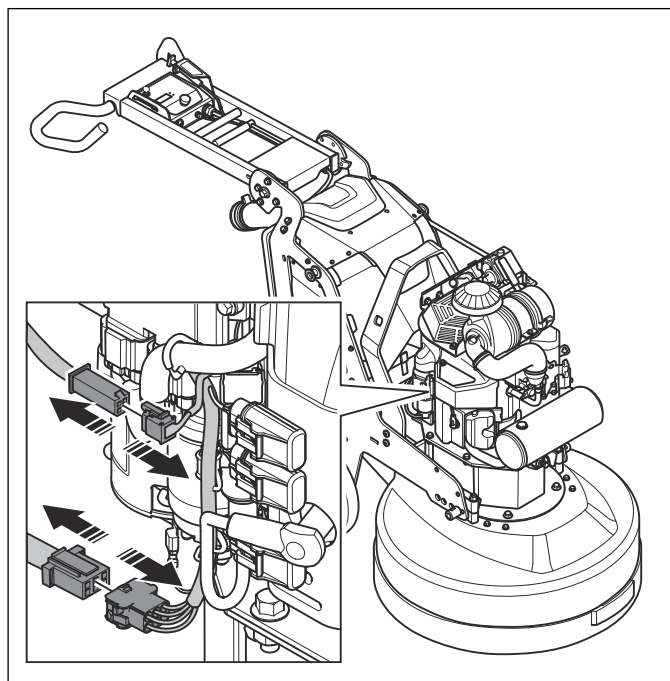
2. Turn the propane tank valve fully clockwise to stop the propane supply.



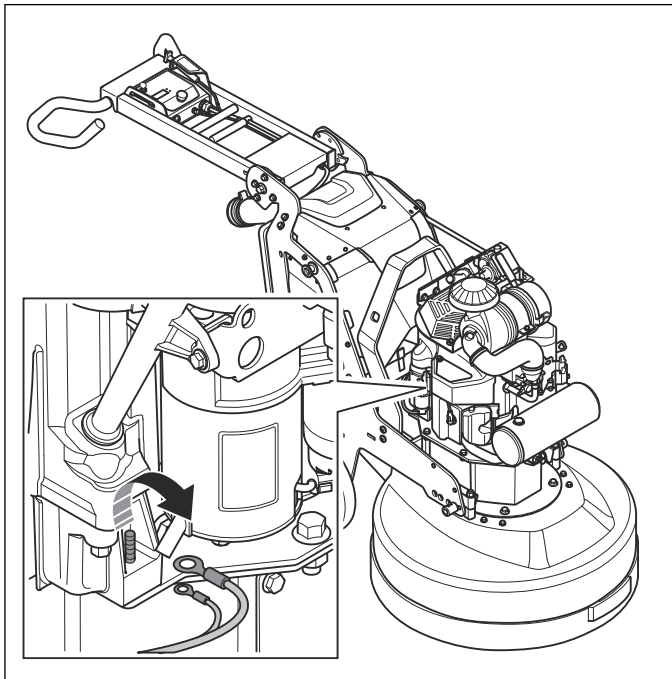
3. Disconnect the propane hose.



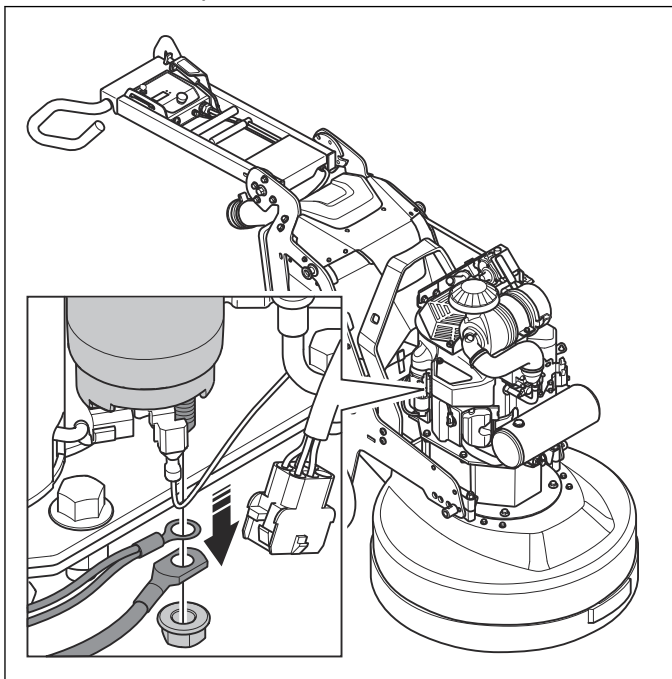
4. Disconnect the connectors.



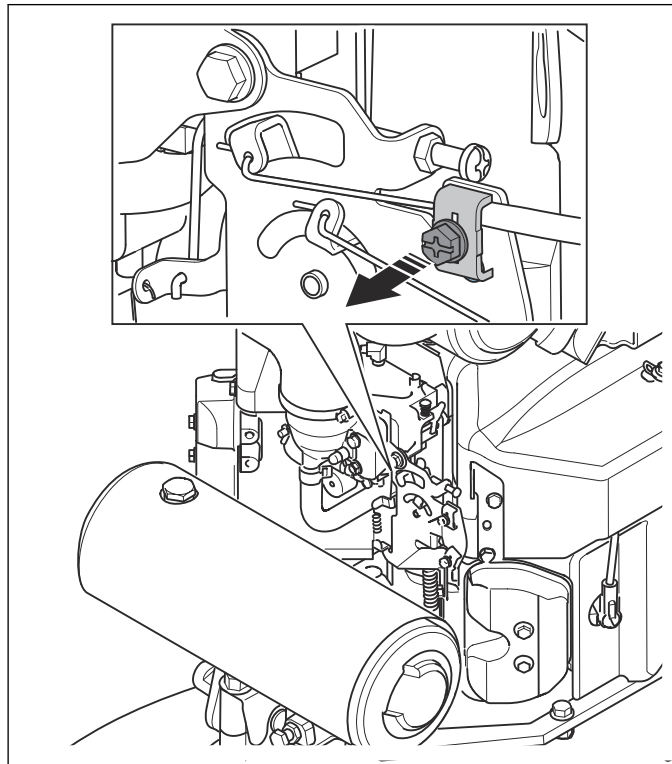
5. Remove the cable.



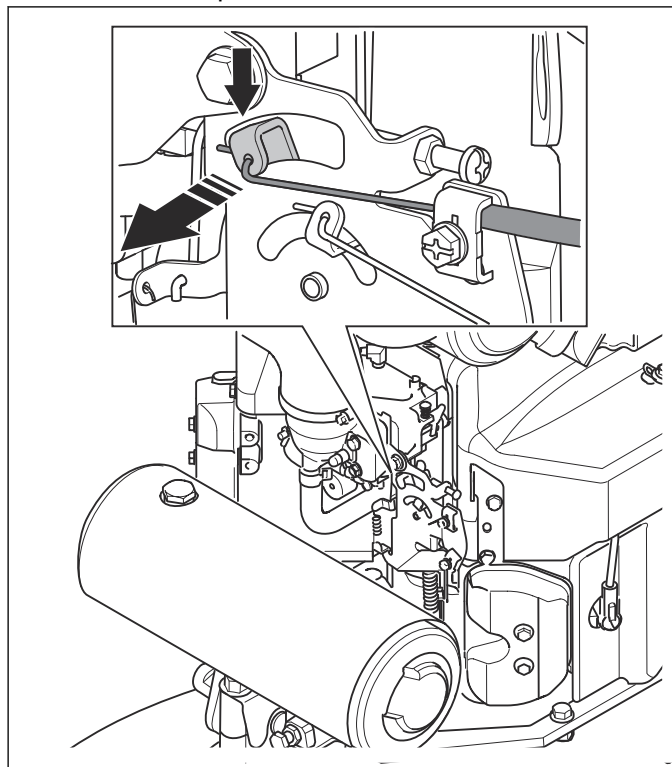
6. Remove the power cable.



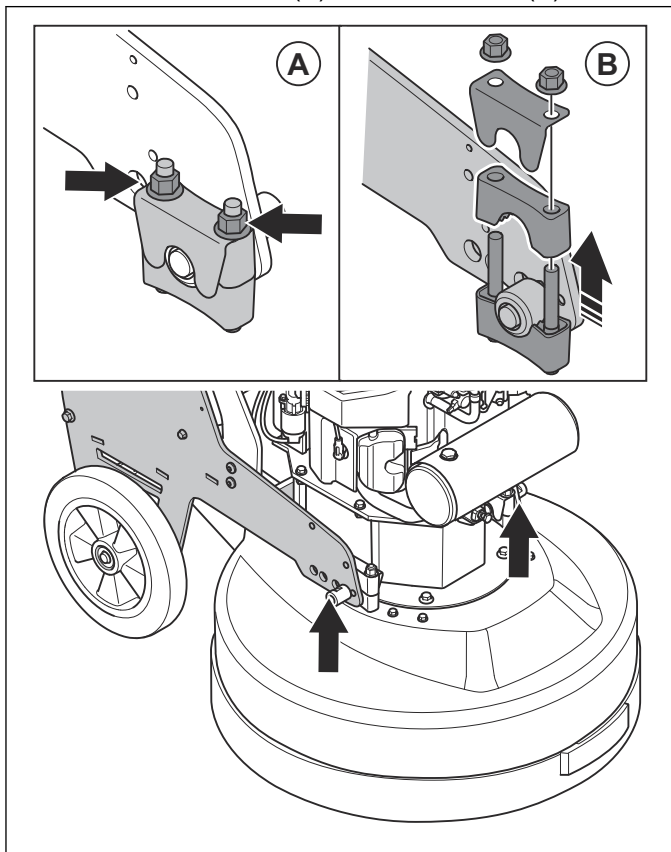
7. Remove the screws for the speed control cable.



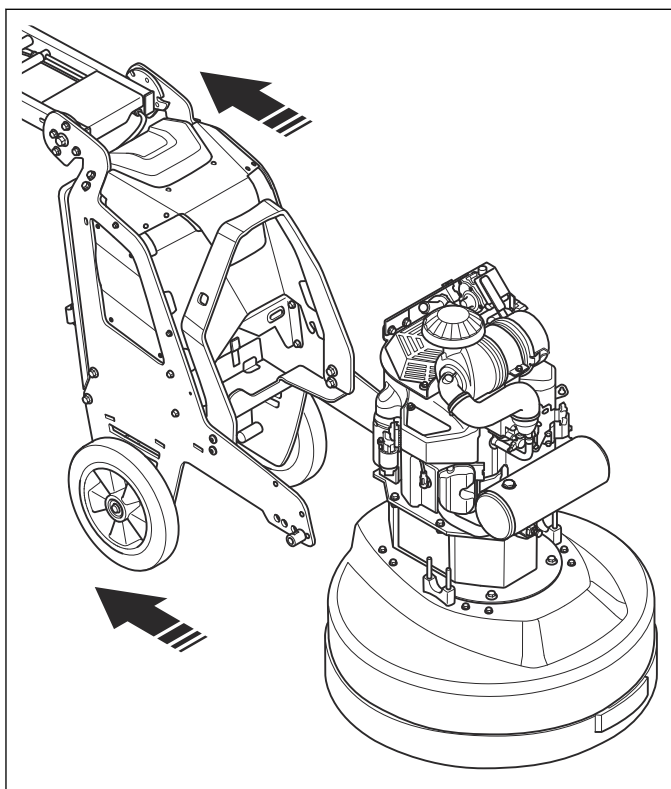
8. Remove the speed control cable.



9. Remove the screws (A) and the bracket (B).



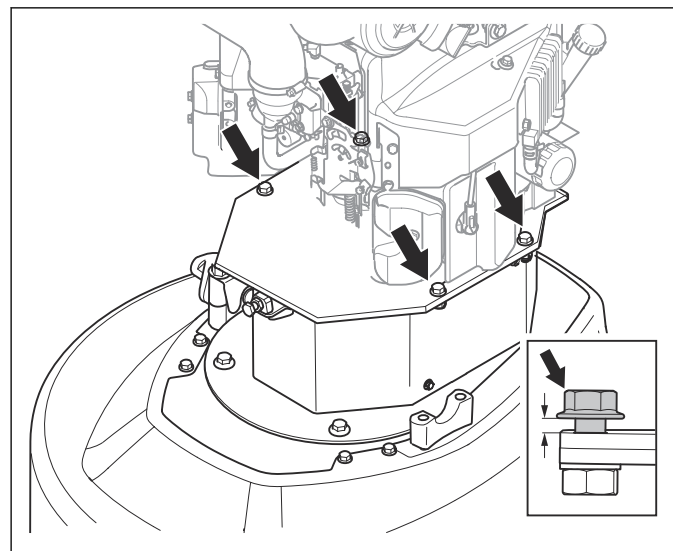
10. Remove the frame.



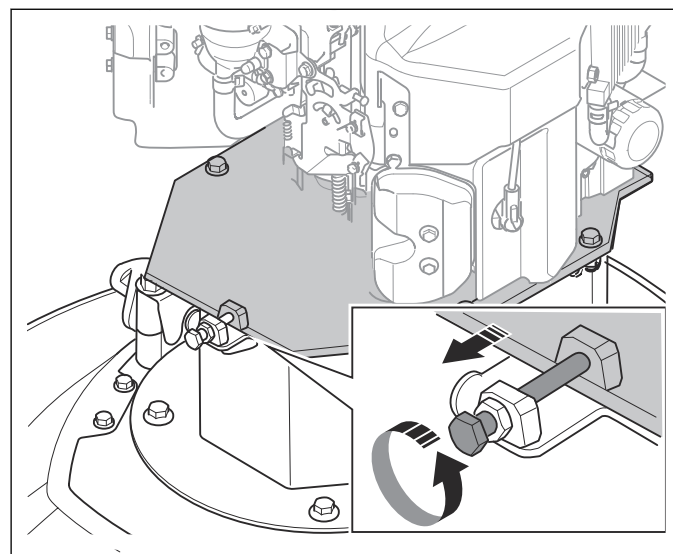
11. Install in opposite sequence.

7.1.2 To remove the engine from the gearbox

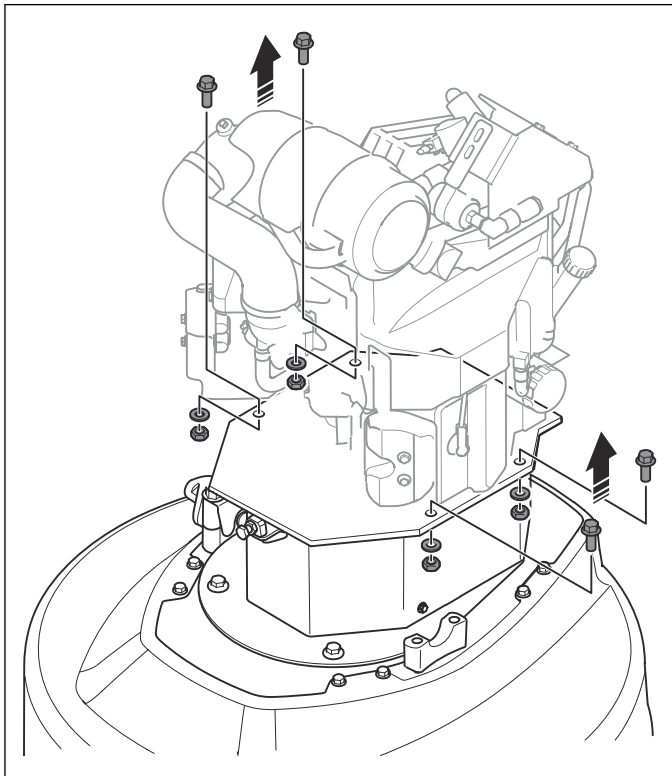
1. Loosen the 4 screws.



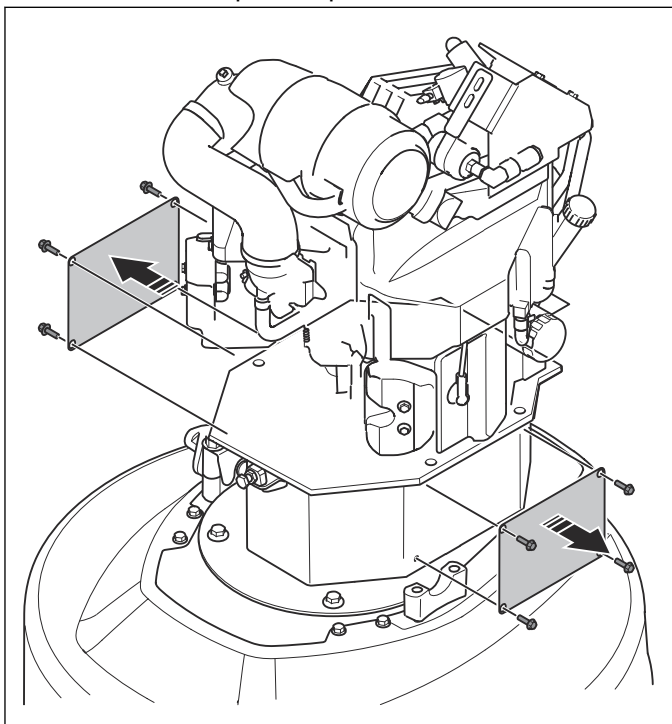
2. Loosen the belt tensioner.



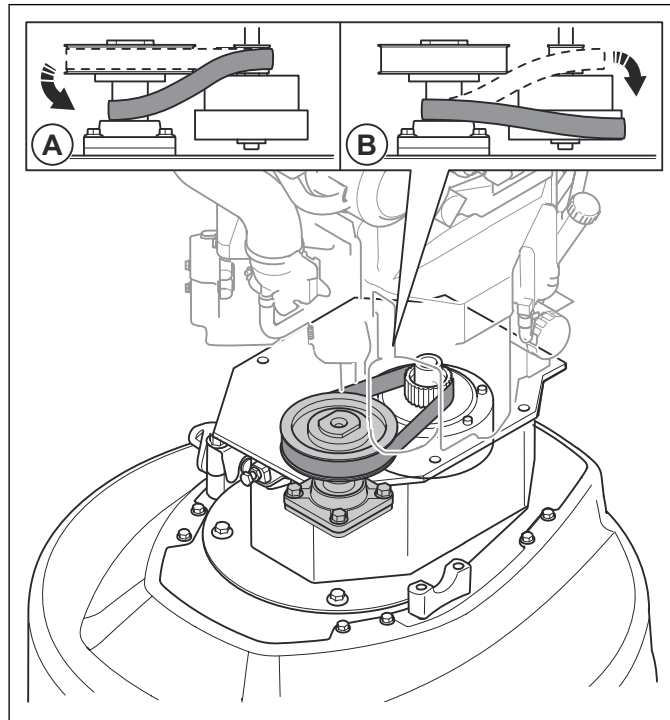
3. Remove the 4 screws.



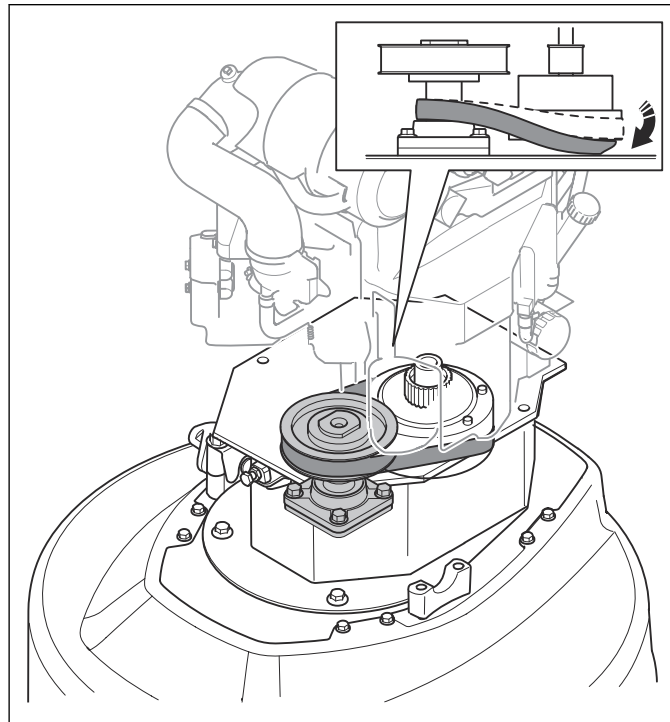
4. Remove the inspection plates.



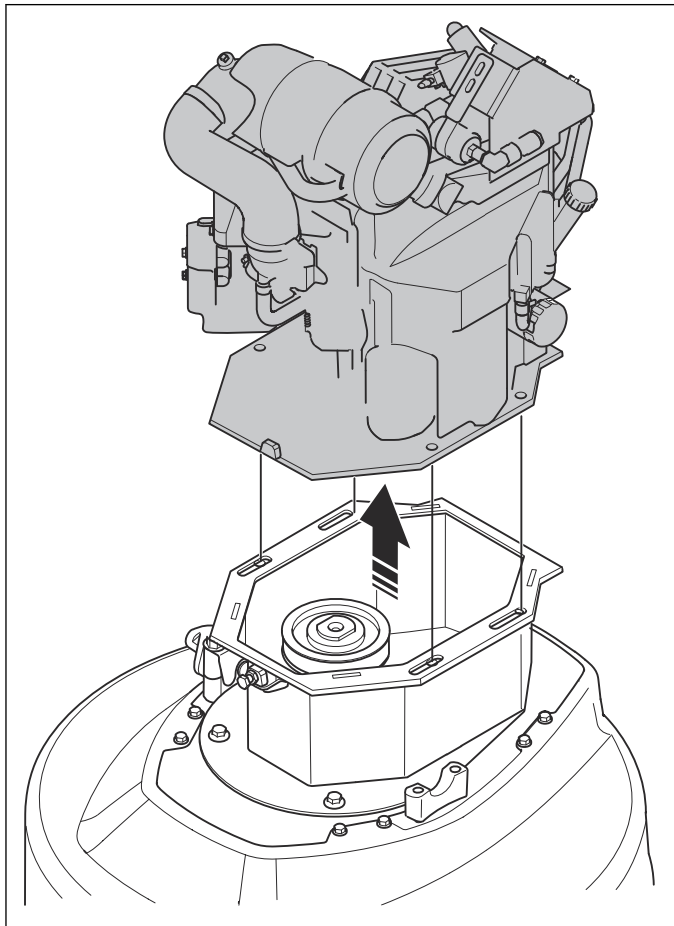
5. Remove the belt from the pulley wheel.



6. Remove the belt from the clutch drum.

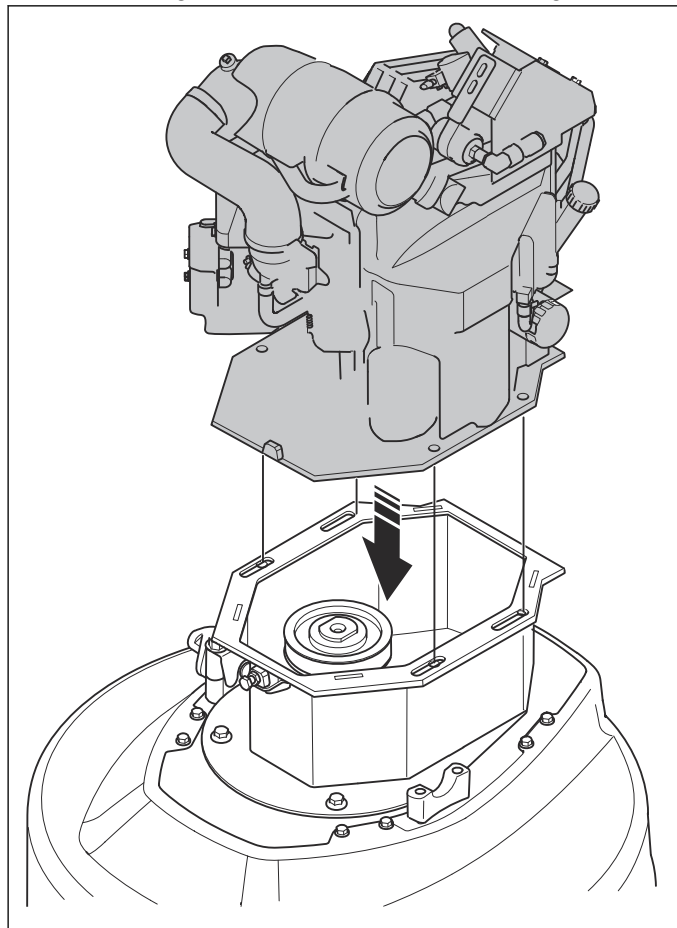


7. Remove the engine.

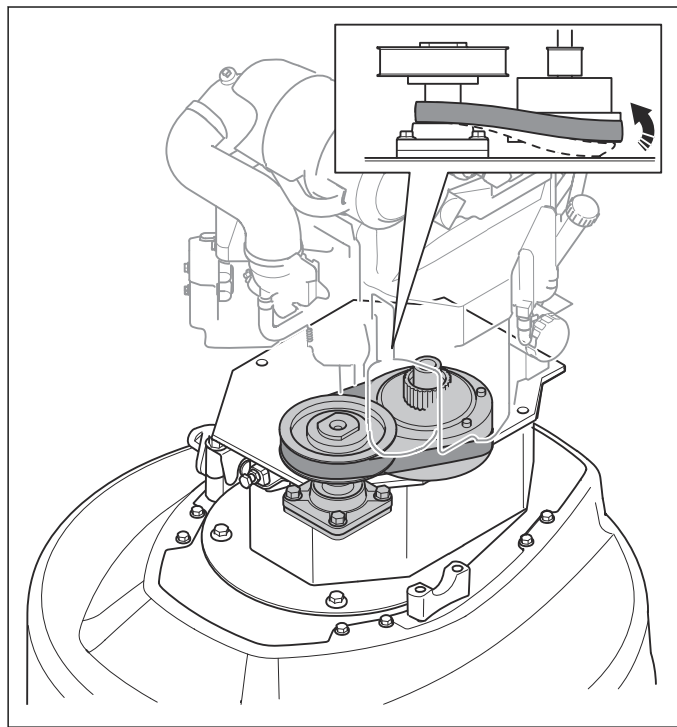


7.1.3 To install the engine

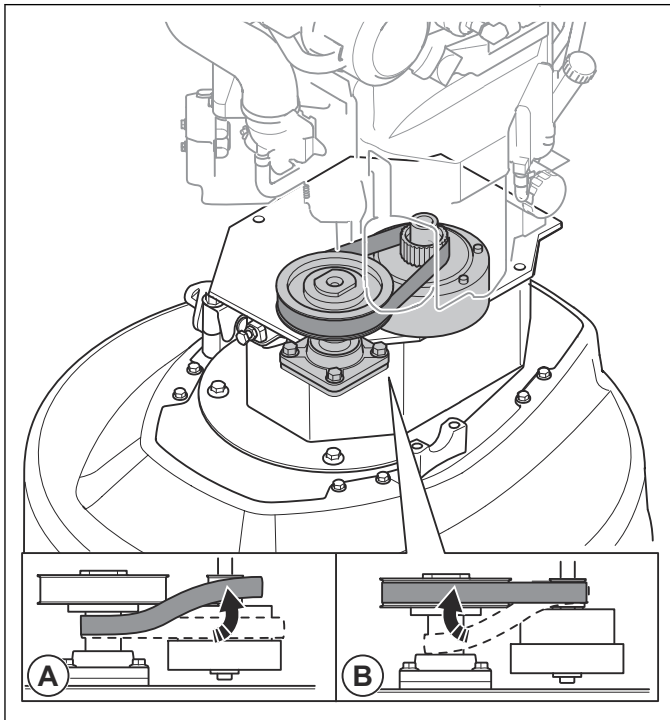
1. Put the engine on the transmission housing.



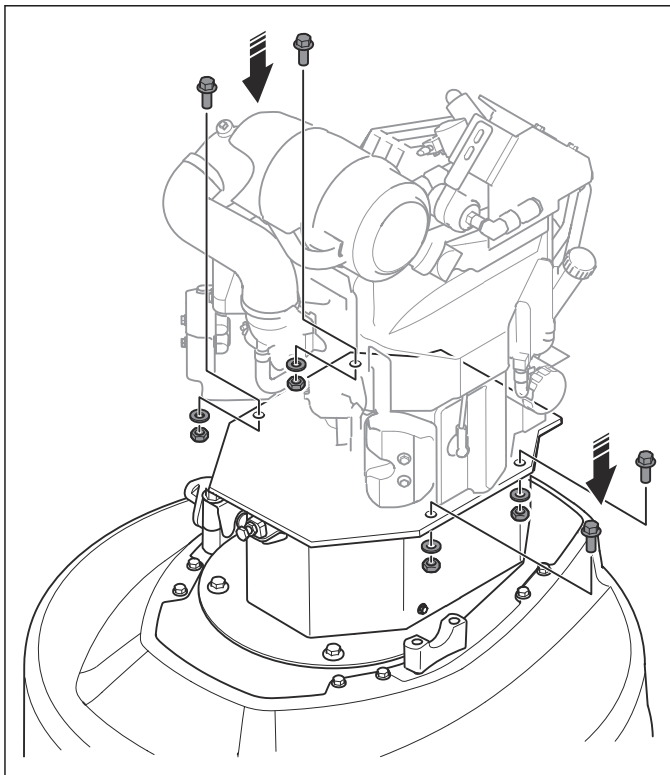
2. Put the belt on the pulley wheel above the clutch drum.



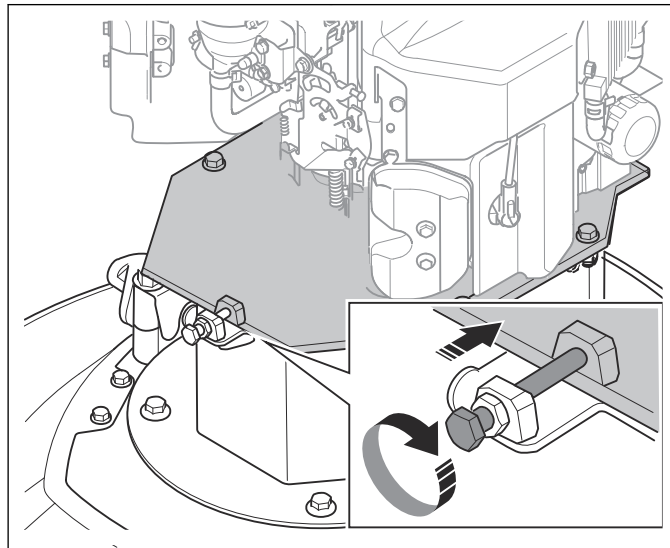
3. Put the belt on the grinding head shaft pulley wheel.



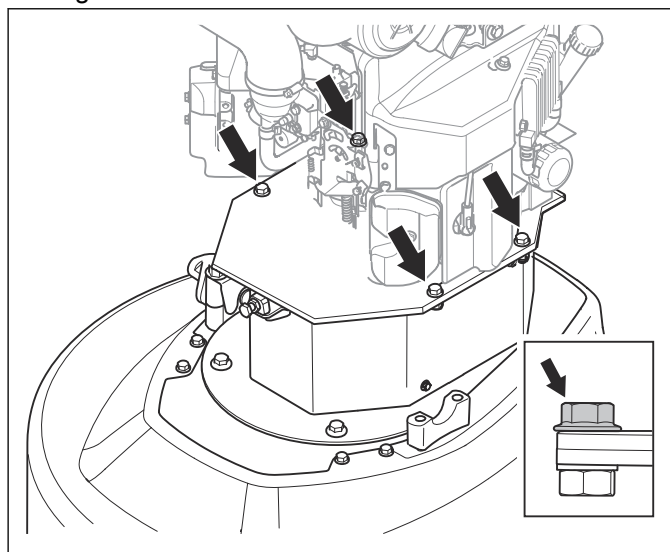
4. Assemble the 4 screws.



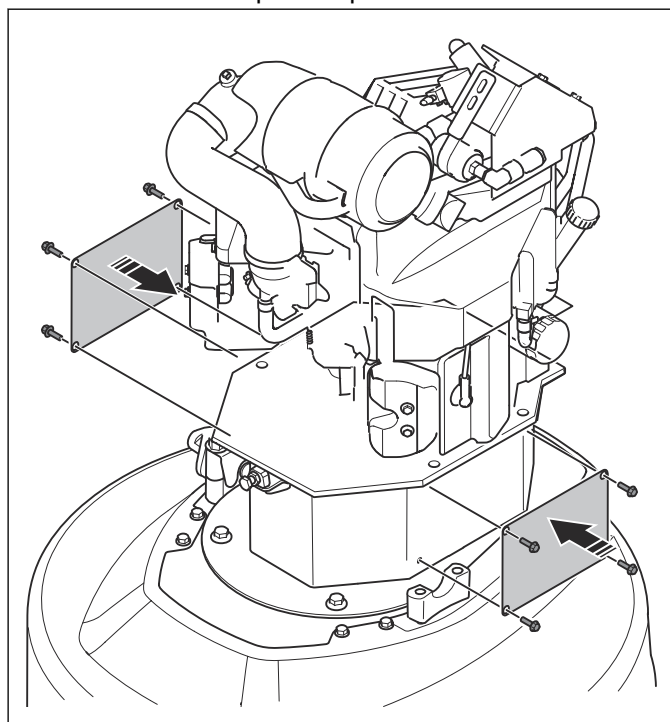
5. Tighten the belt tensioner.



6. Tighten the 4 screws.

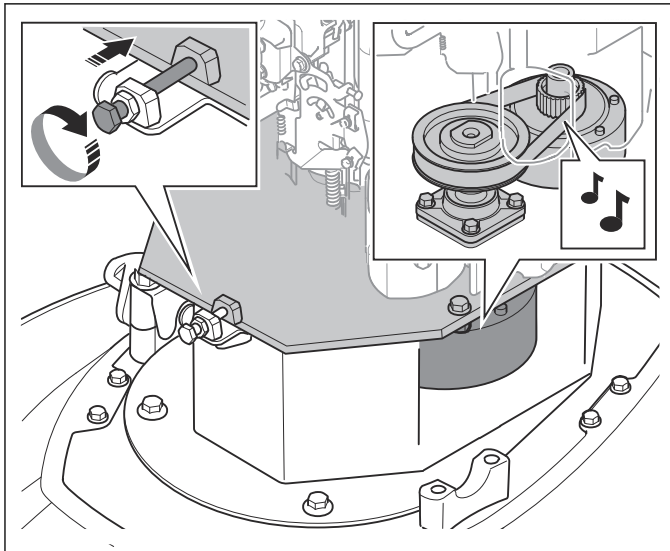


7. Assemble the inspection plates.

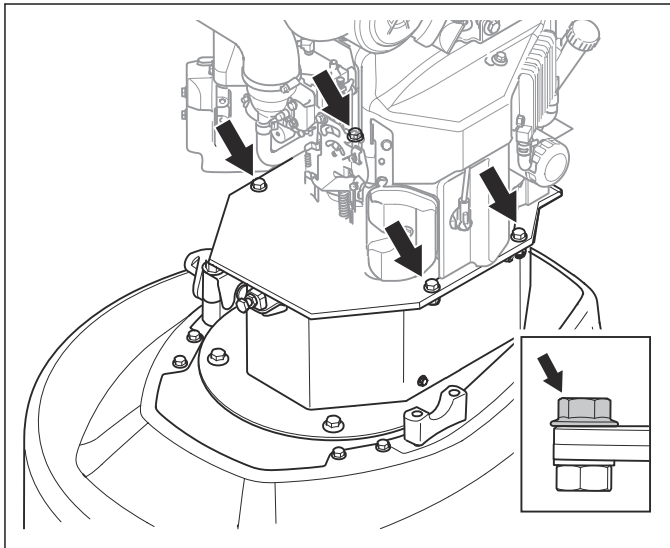


7.1.4 To tighten the belt

1. Tighten the belt tensioner until the belt vibrates with a frequency of 240 Hz.



2. Tighten the 4 screws.



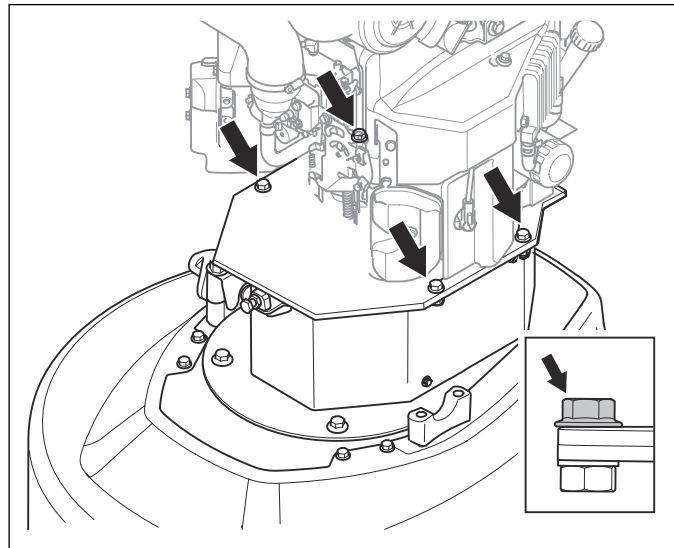
3. Test run the product.



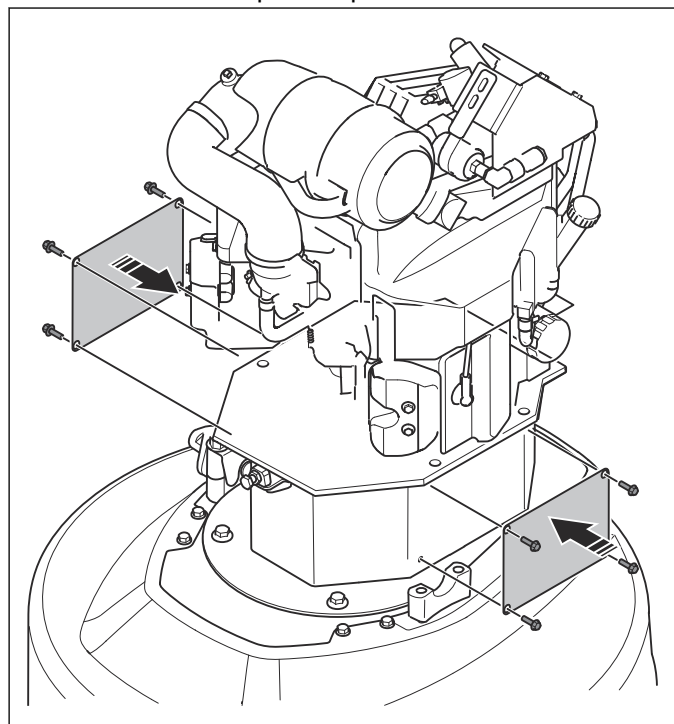
CAUTION: You must use the product on a concrete surface. Do not just run the product in an elevated position.

4. Do a check of the belt tension.
The tension must be 211 Hz - 240 Hz. If the tension is below 211 Hz or above 240 Hz, adjust the tension to 211 Hz.

5. Tighten the 4 screws.

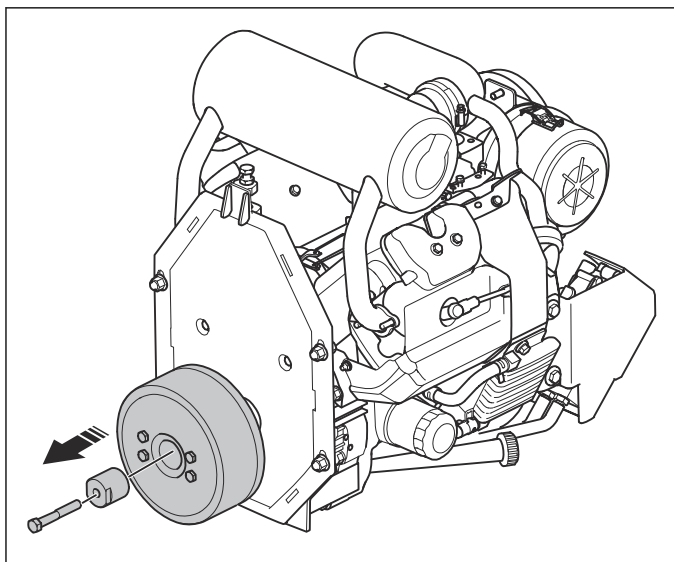


6. Assemble the inspection plates.

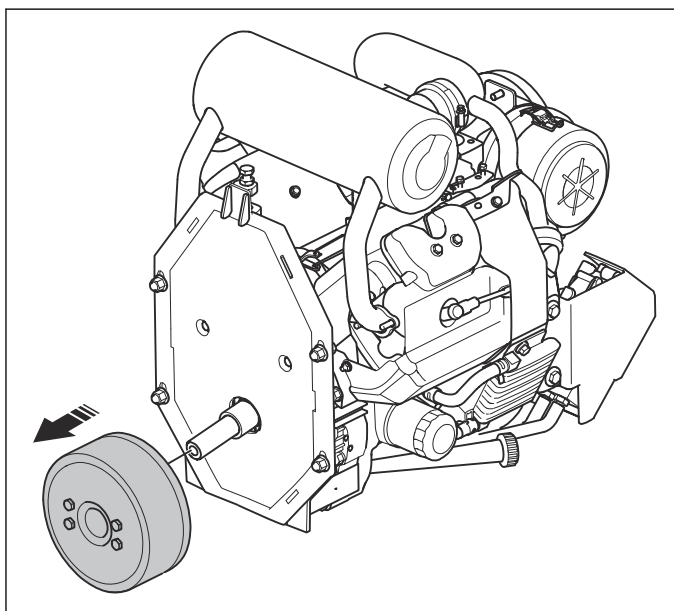


7.1.5 To remove and install the clutch

1. Remove the screw and the sleeve.



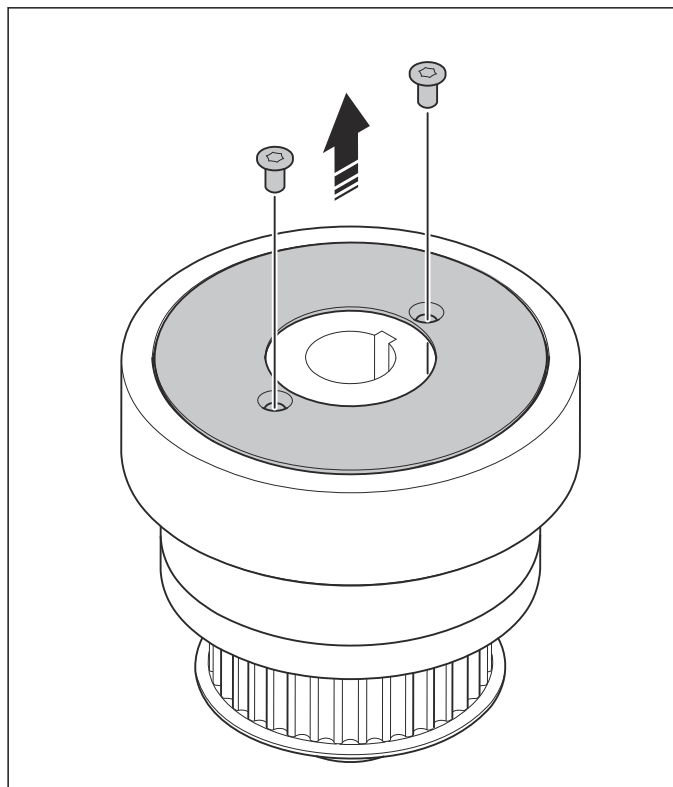
2. Remove the clutch.



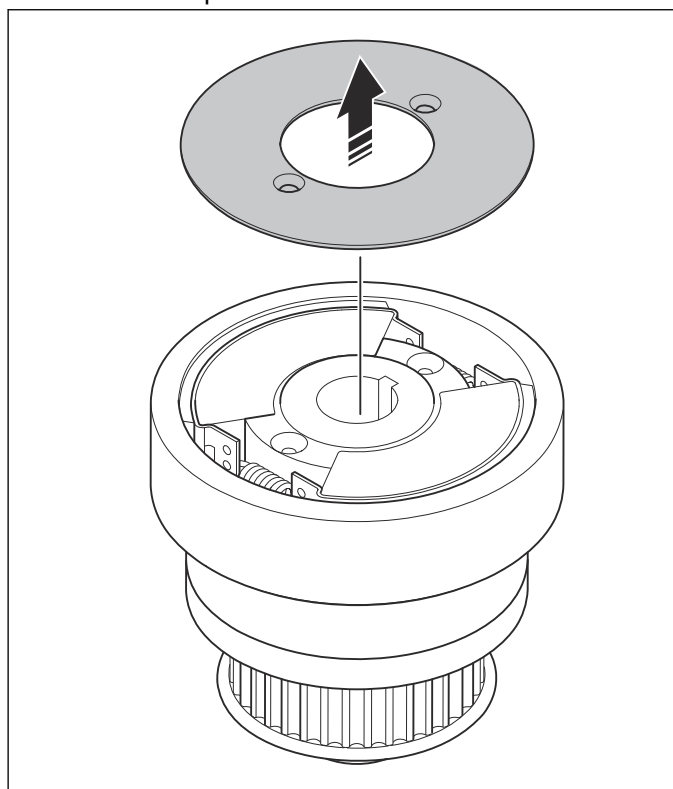
3. Install in opposite sequence.

7.1.6 To disassemble and assemble the clutch

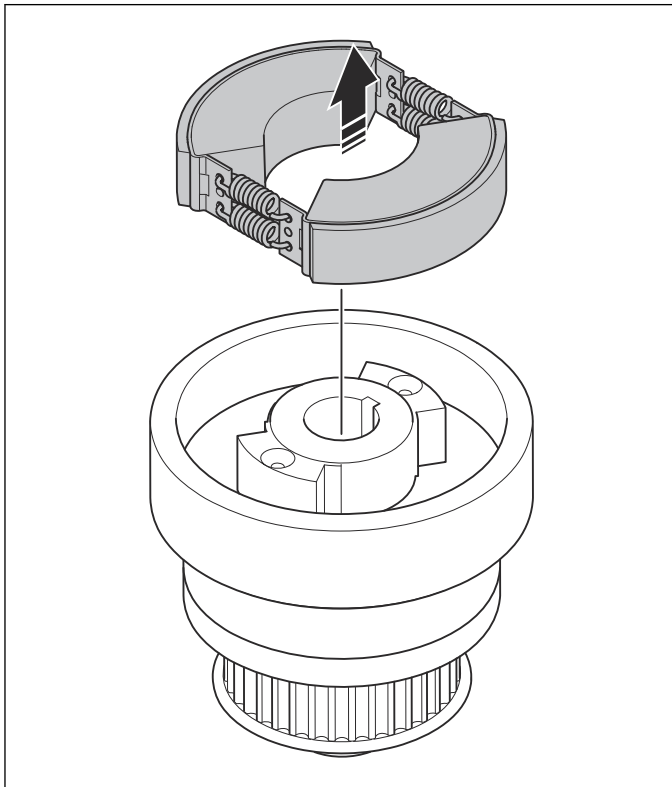
1. Remove the 2 screws.



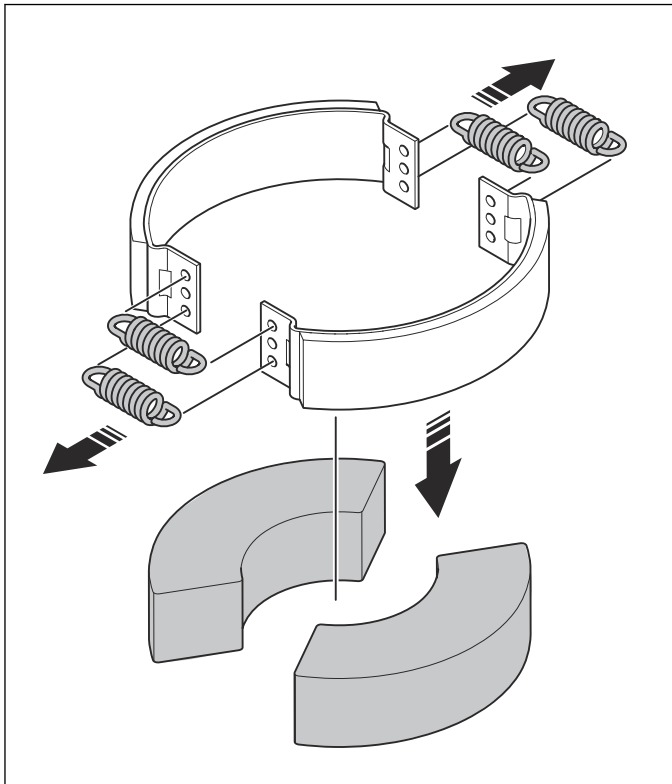
2. Remove the plate.



3. Remove the friction shoes, weights and springs.



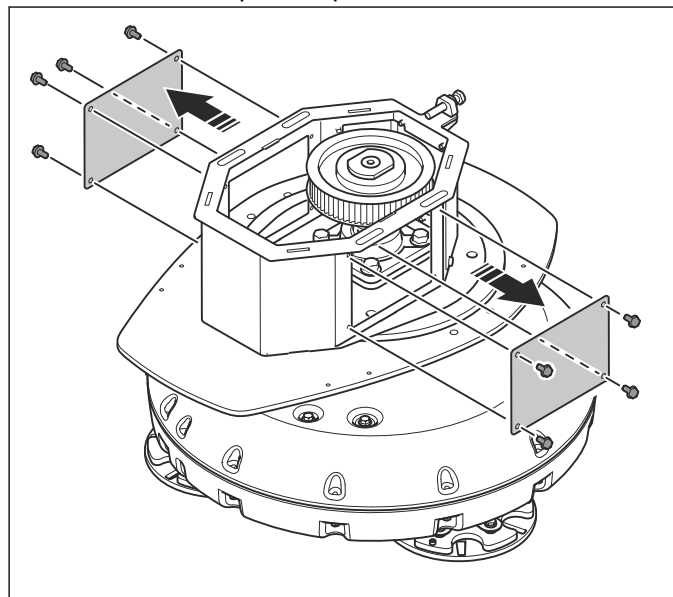
4. Disassemble the friction shoes, weights and springs.



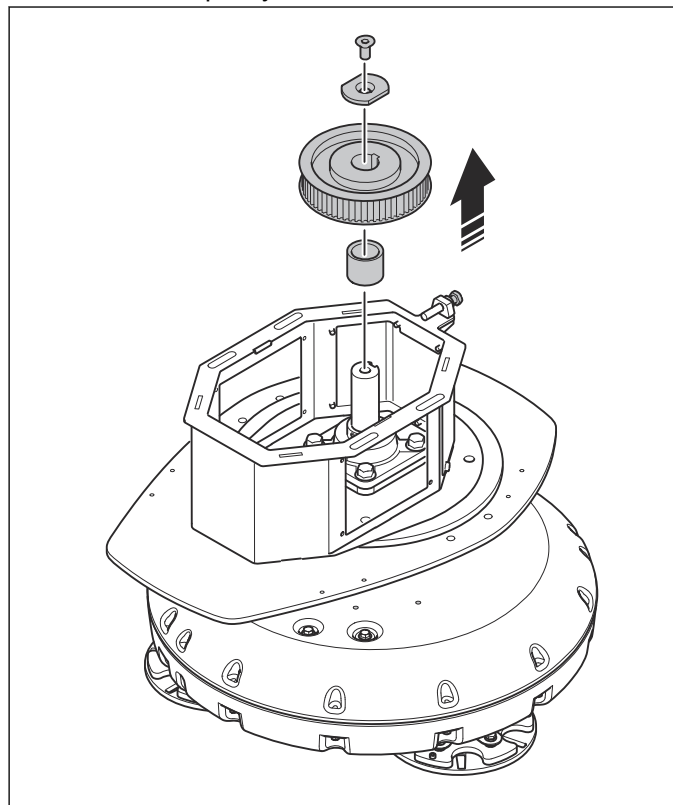
5. Assemble in opposite sequence.

7.1.7 To remove the gearbox and the engine plate from the grinding head

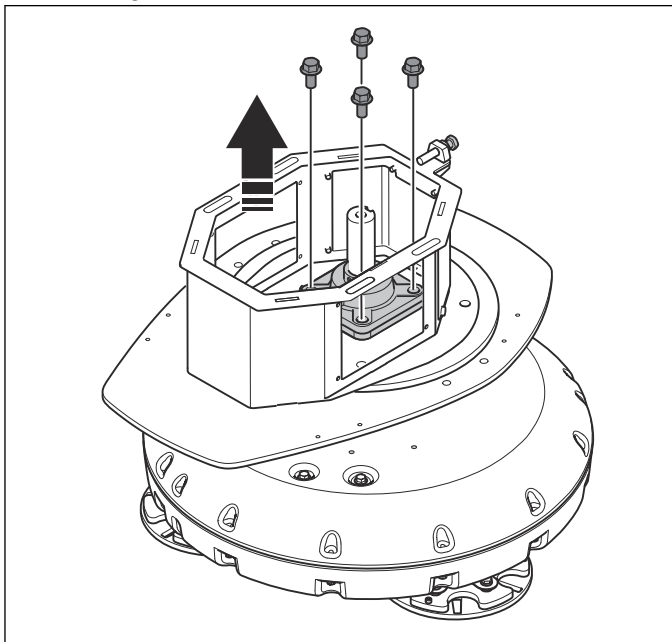
1. Remove the inspection plates.



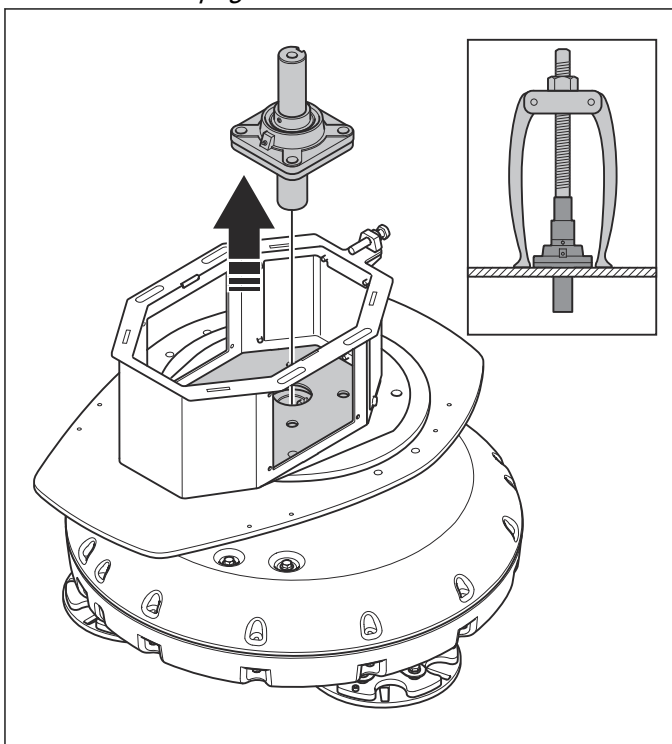
2. Remove the pulley wheel.



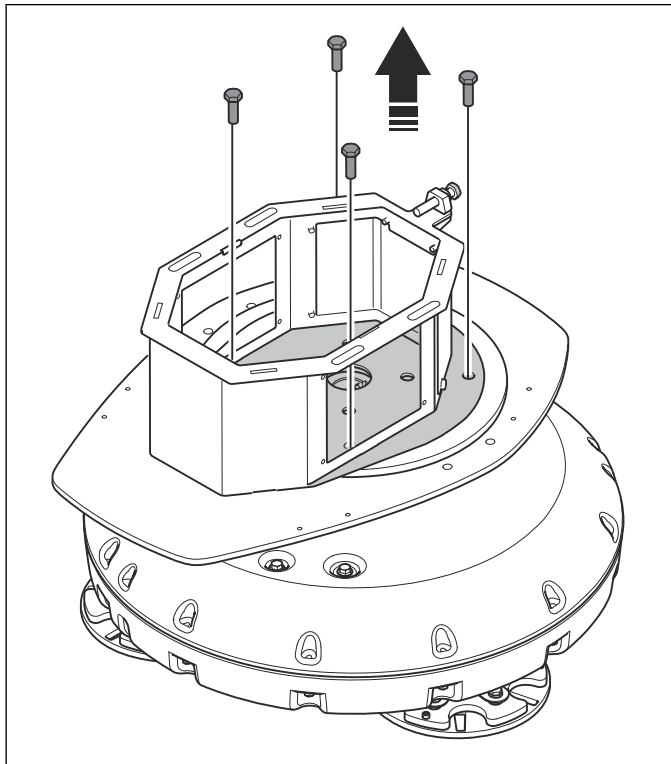
3. Remove the 4 screws for the flange bearing housing.



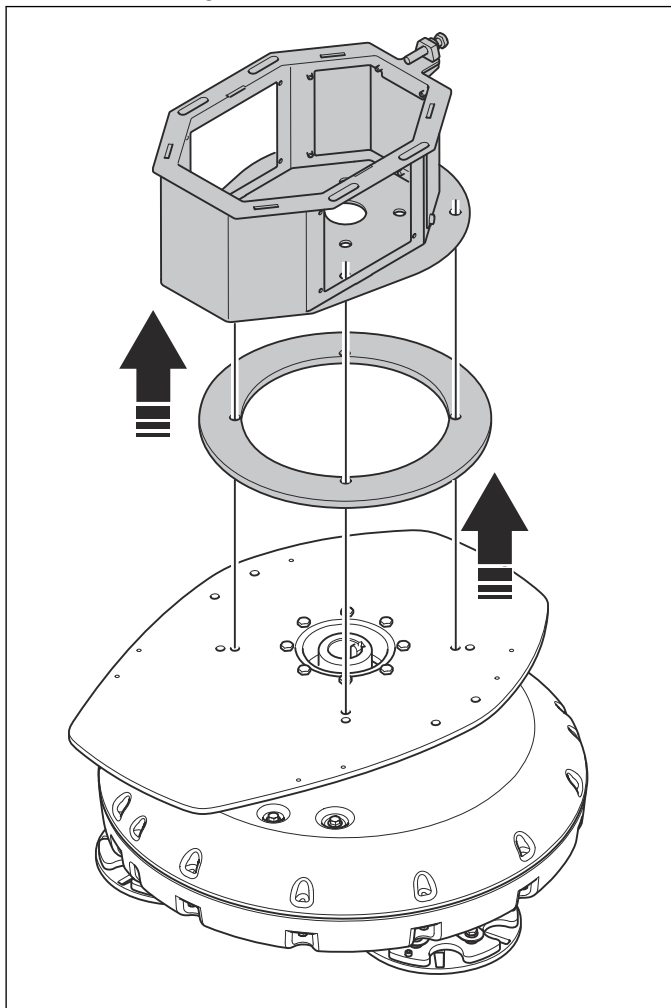
4. Remove the flange bearing housing and the shaft with a counter stay device. Refer to *Servicing tools overview on page 11*.



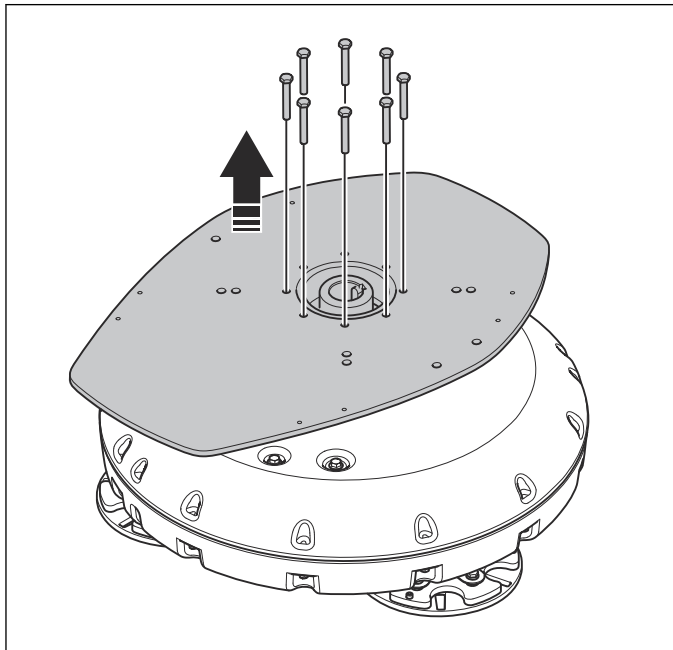
5. Remove the 4 screws for the gearbox.



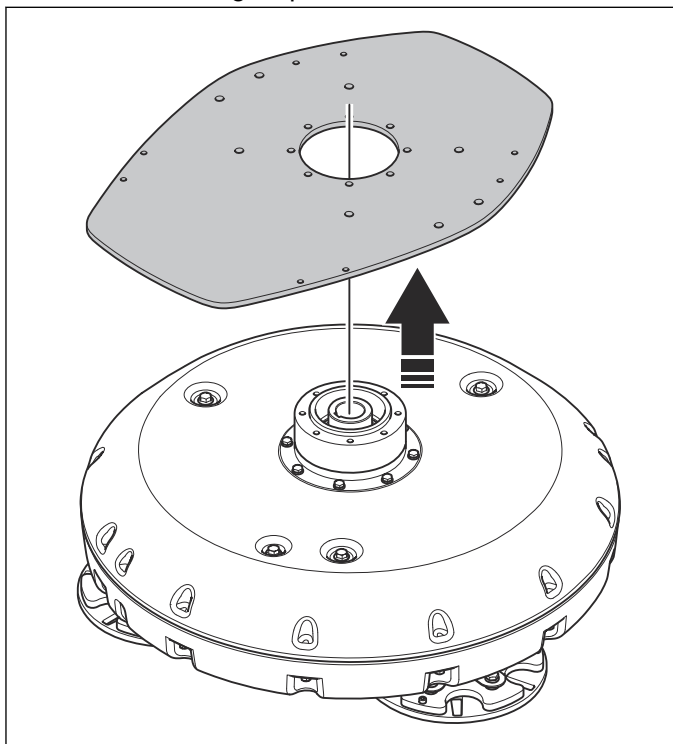
6. Remove the gearbox.



7. Remove the 8 screws for the engine plate.



8. Remove the engine plate.



7.1.8 To do a vapor calibration

A vapor calibration is necessary when the propane regulator is replaced.



CAUTION: Keep the grinding head off the ground when you do the vapor calibration.

1. Before you do the vapor calibration, connect the engine to the test equipment as follows:
 - a) Connect the electrical connectors to the starter motor, the lockoff valve, the O.P.S. and the emissions.
 - b) Connect the propane hose.

- c) Connect a tachometer.
 - d) Connect a pressure gauge to the regulator.
 - e) Connect an air/fuel ratio gauge to the muffler.

2. Open the propane tank and do a leak test of the connections at the lockoff valve.
3. Crank the engine to make sure that there is pressure in the regulator.
4. Adjust the pressure and the idle speed screw until the engine can start and stay on.
5. Set the engine speed to full speed (3500 rpm) and set the pressure to 2.5 PSI.
6. Let the engine operate for 10 minutes until it is warm.
7. With the engine at full speed and without load, make sure that these setpoints are correct:
 - a) Pressure: 2.5 PSI.
 - b) Air/fuel ratio: 17.0–20.9
8. Set the engine to idle speed and make sure that these setpoints are in the given ranges:
 - a) Engine speed: 1200–1350 rpm.
 - b) Air/fuel ratio: 16.5–17.9

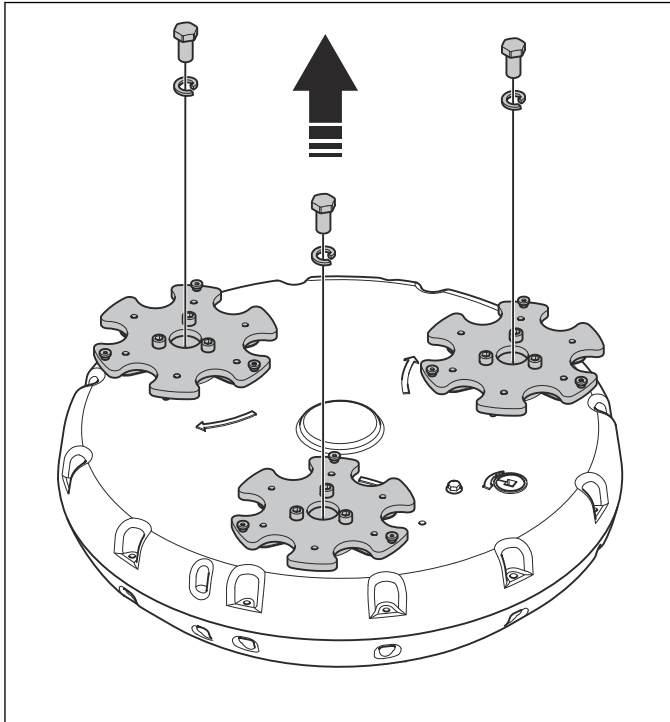
After the vapor calibration, do a check of the following:

- The engine can restart.
- The supply pressure of the propane tank is 90–140 PSI.
- The O.P.S. opens when the engine stops.

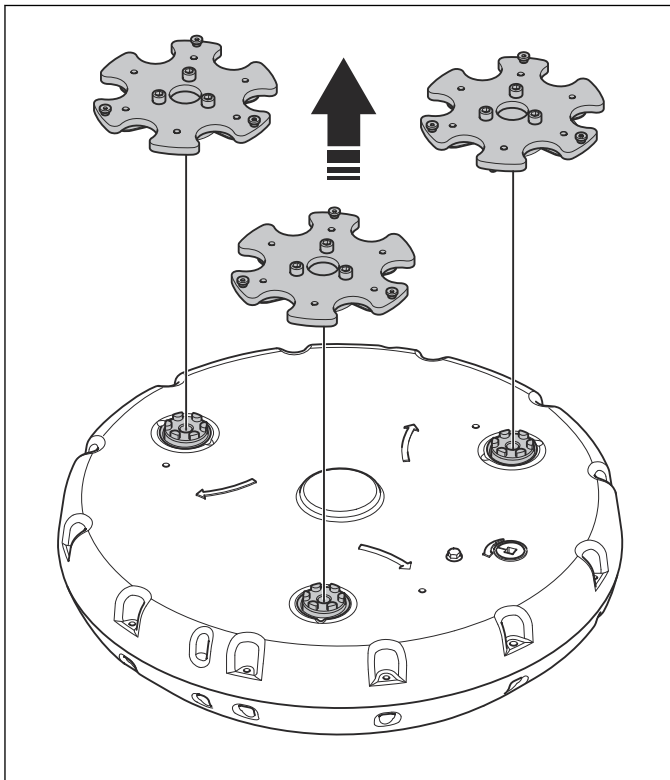
7.2 Grinding head

7.2.1 To remove the tool holders

1. Remove the center screws from the tool holders.

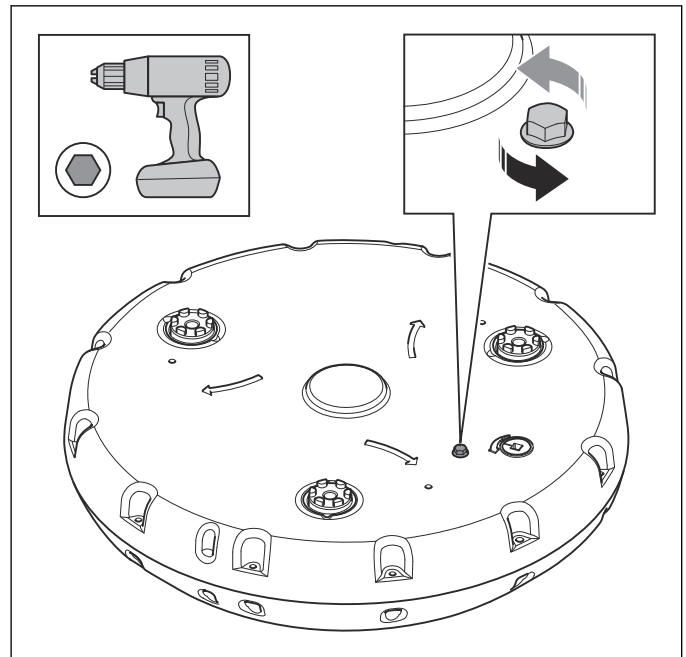


2. Remove the tool holders from the grinding head.

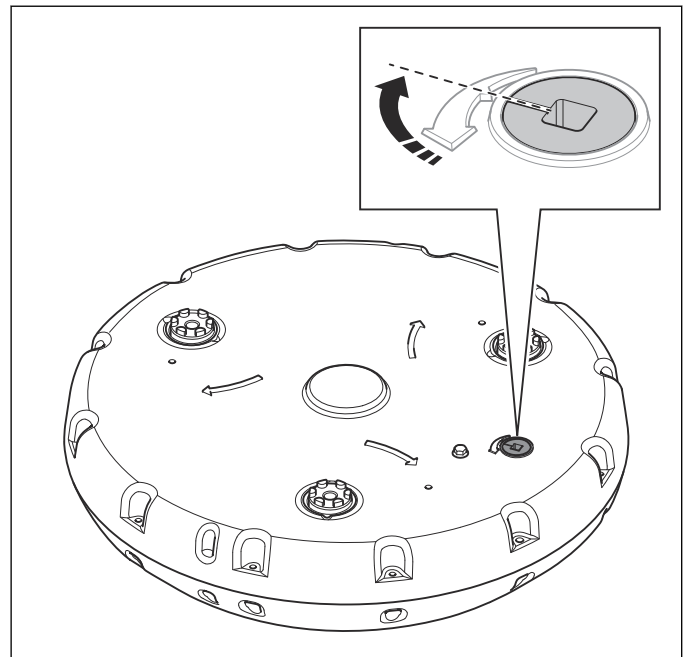


7.2.2 To open the grinding head

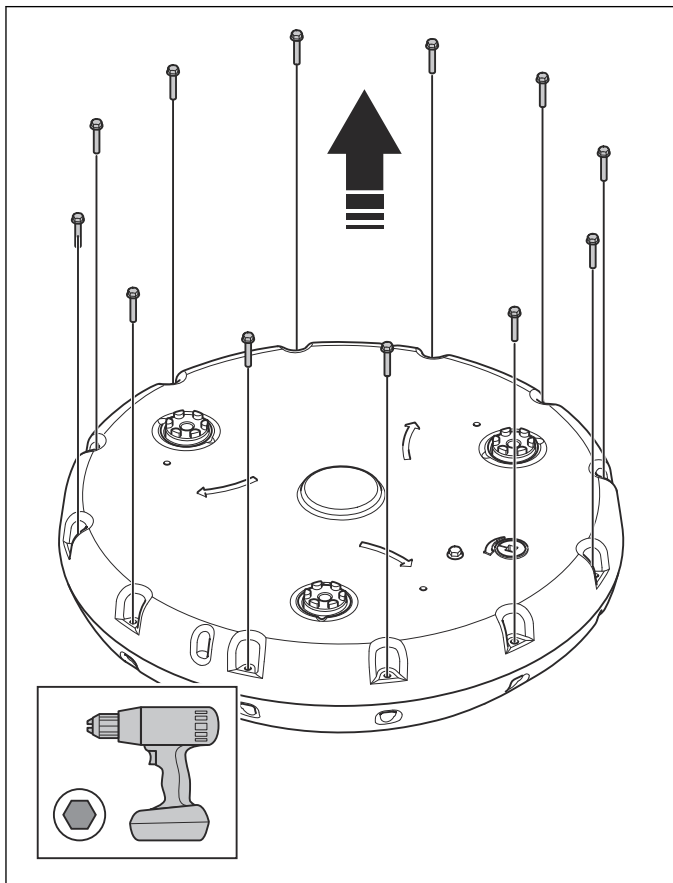
1. Loosen the belt tensioner screw.



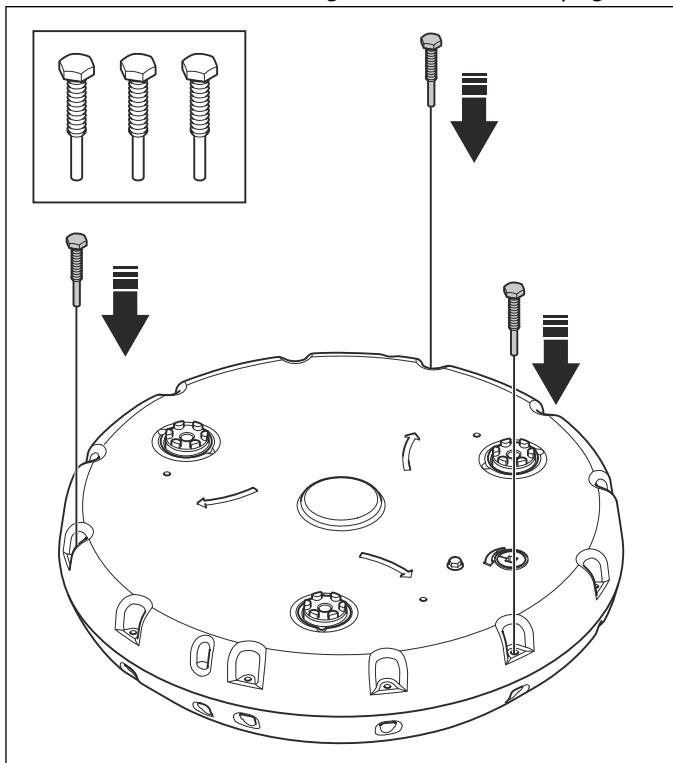
2. Make sure that the line on the belt tensioner aligns with the mark on the arrow.



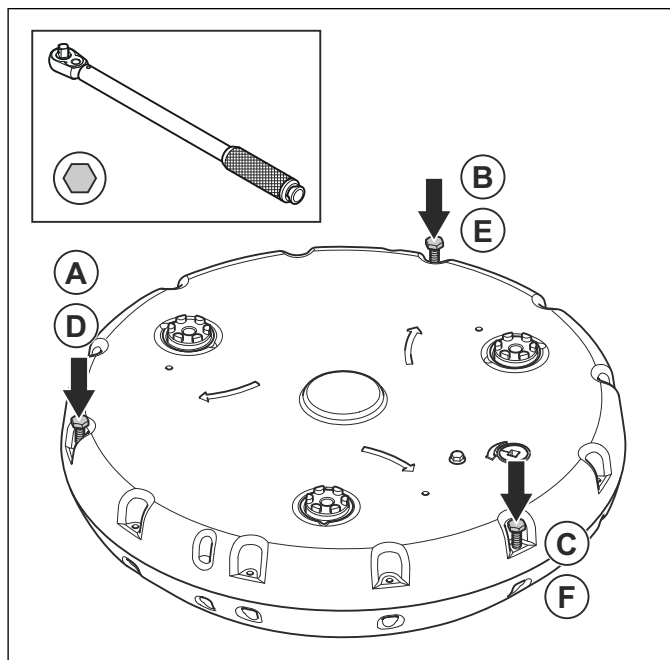
3. Remove the 9 screws from the lid.



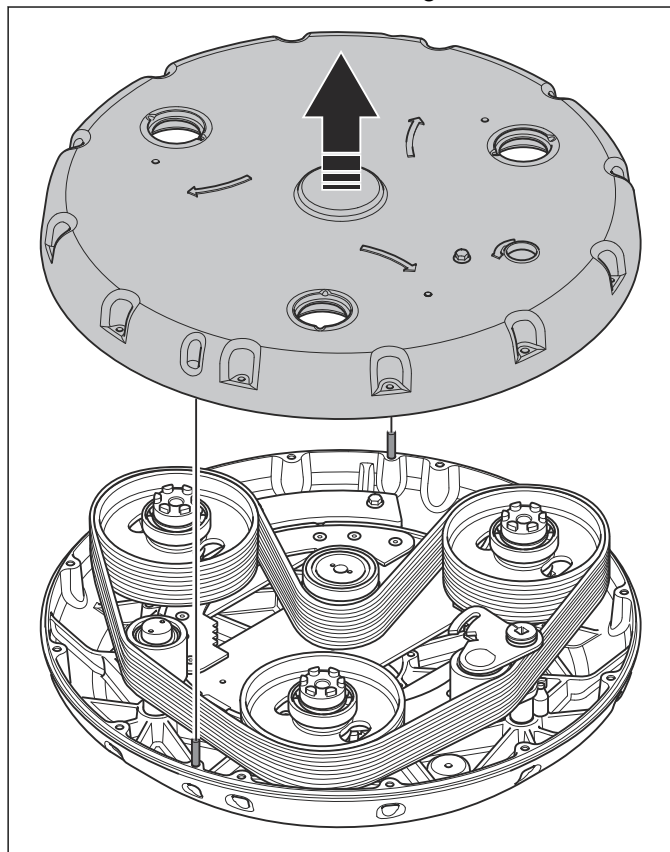
4. Put a removal tool for the grinding head in 3 of the holes. Refer to *Servicing tools overview* on page 13.



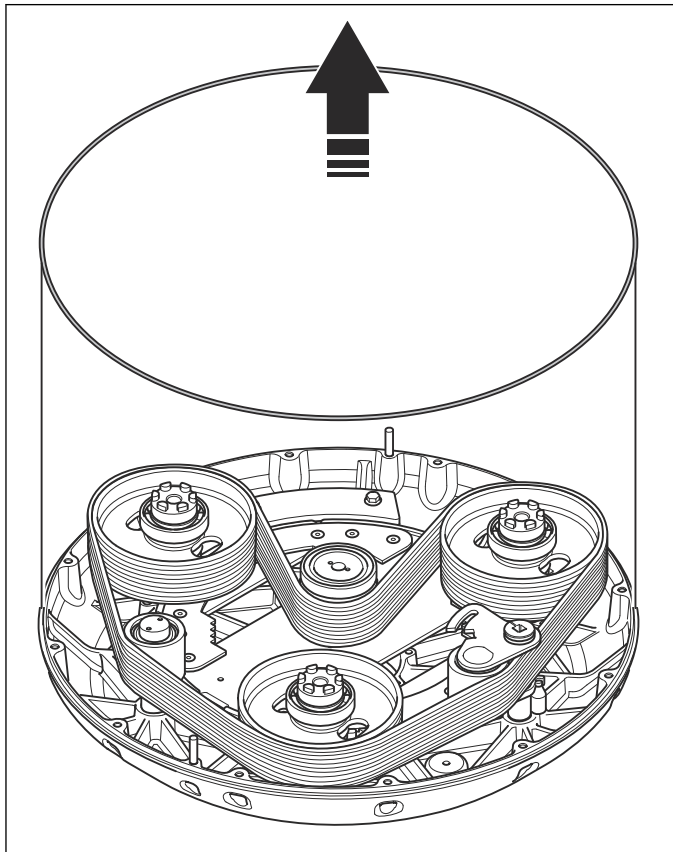
5. Tighten the removal tools for the grinding head. Refer to the picture and tighten in sequence from A to F.



6. Remove the lid from the housing.



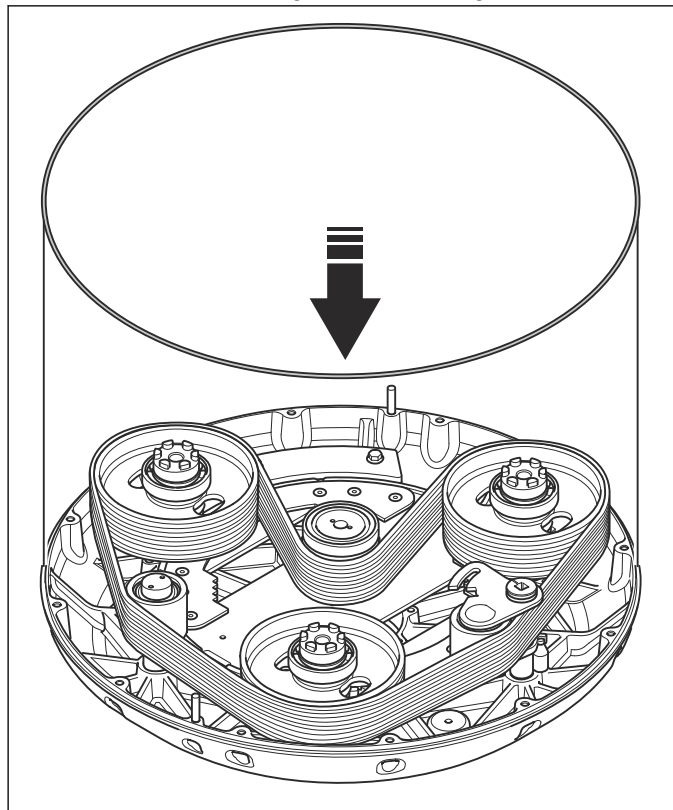
7. Remove the O-ring from the housing.



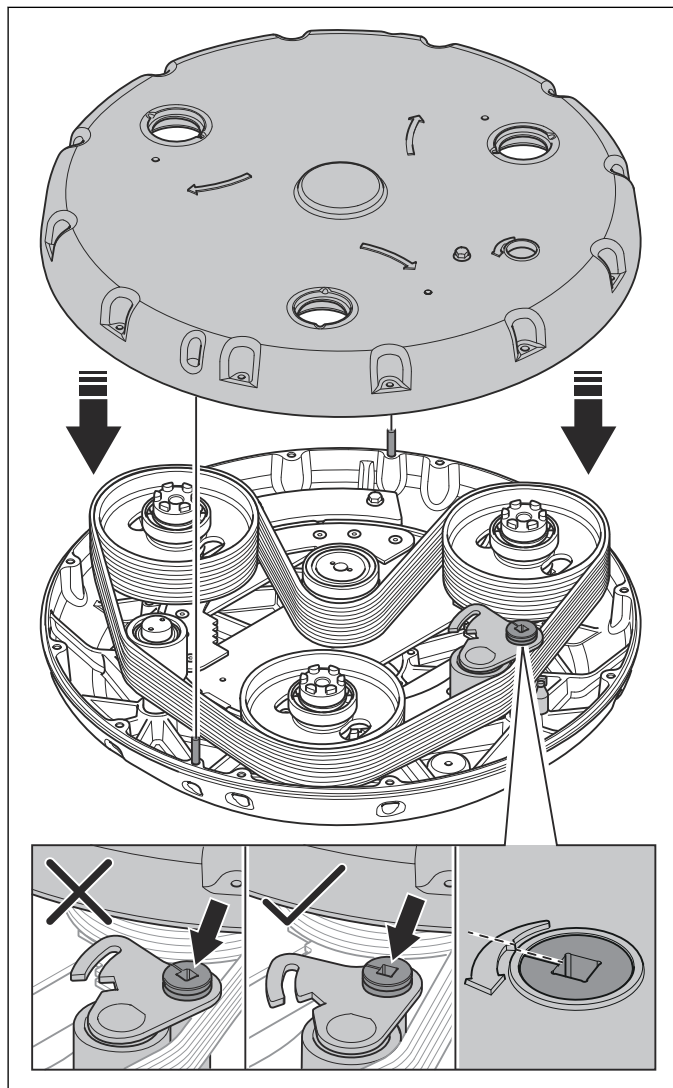
8. Discard the O-ring.

7.2.3 To close the grinding head

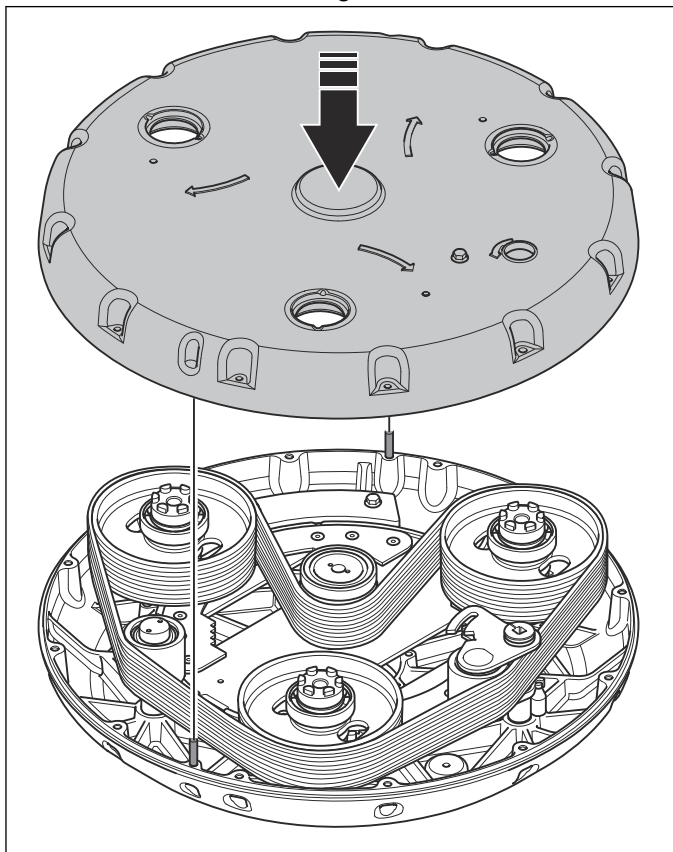
1. Install the new O-ring on the housing.



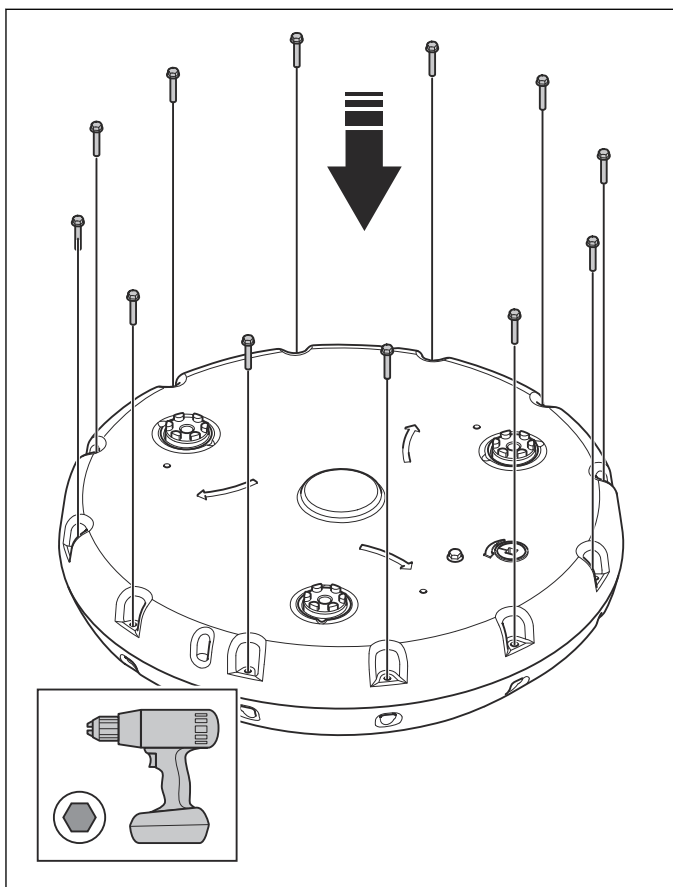
2. Make sure that the line on the belt tensioner aligns with the mark on the arrow.



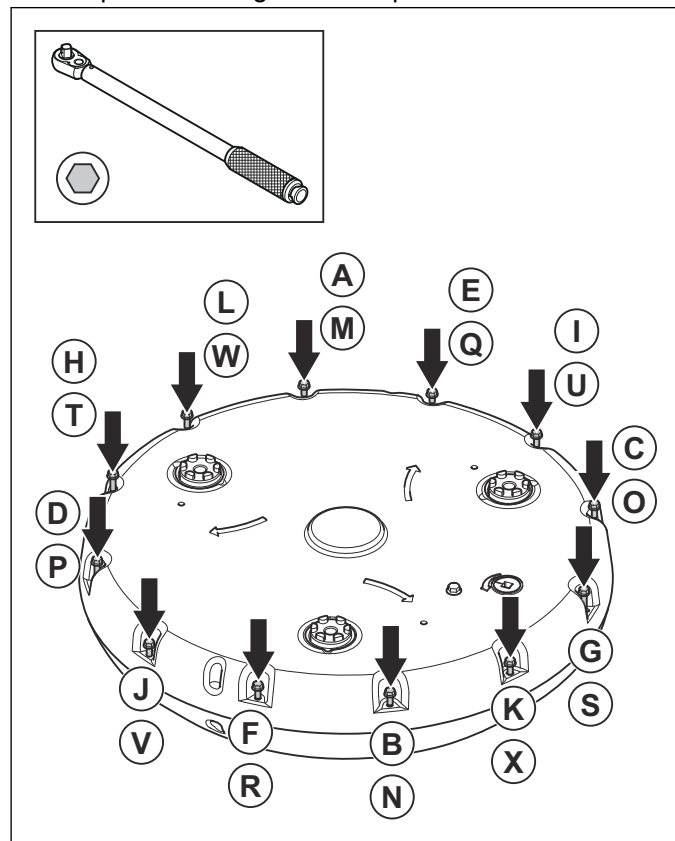
3. Put the lid on the housing.



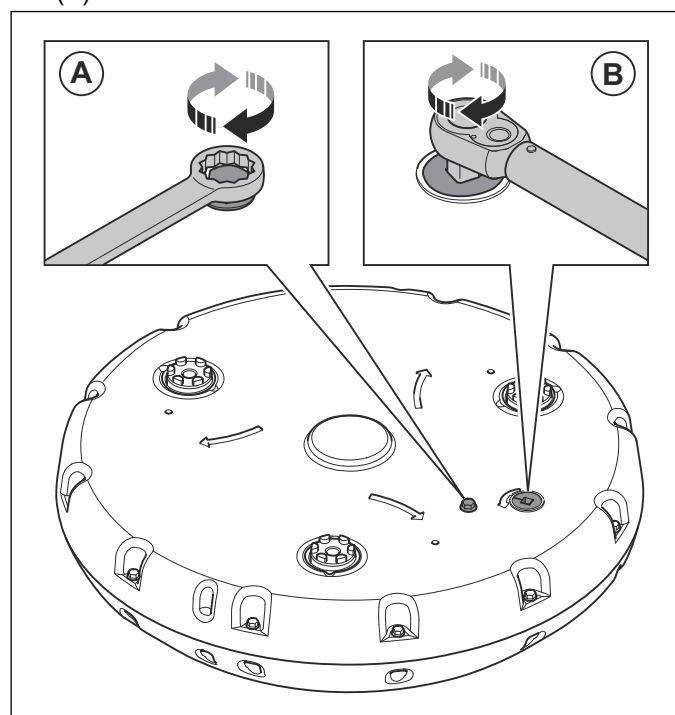
4. Put the 12 screws in the 12 holes.



5. Tighten the screws. Use a torque wrench. Refer to the picture and tighten in sequence from A to W.



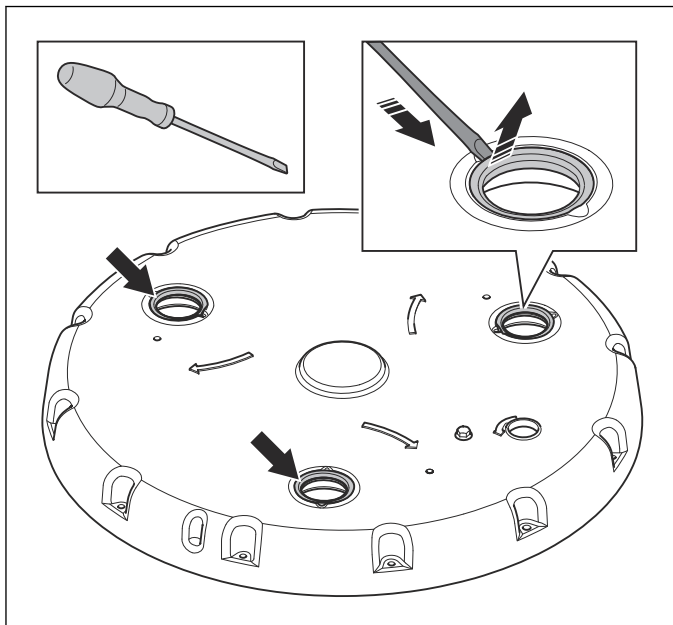
6. Use torque wrenches to adjust the belt tensioner. Hold the belt tensioner (B) and tighten the locknut (A).



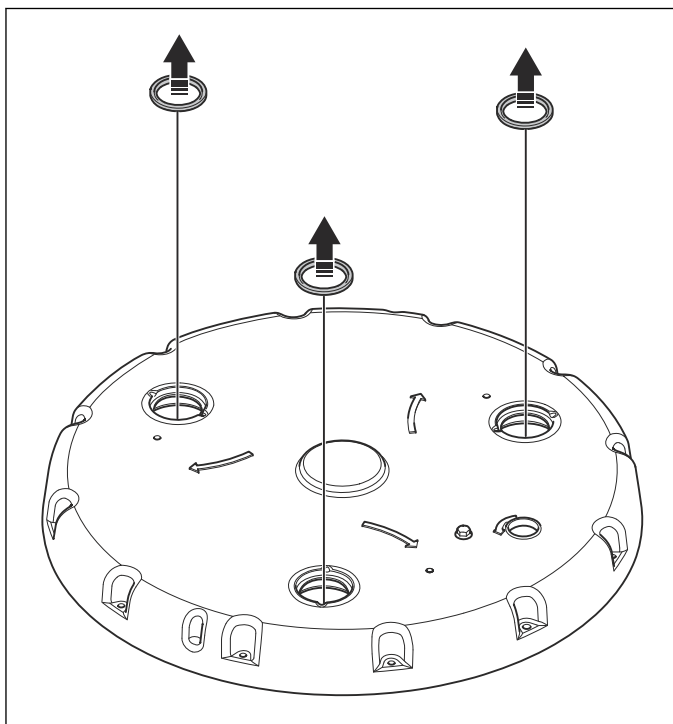
7.3 Radial shaft seal

7.3.1 To remove the radial shaft seals

1. Remove the radial shaft seals. Use a screwdriver.

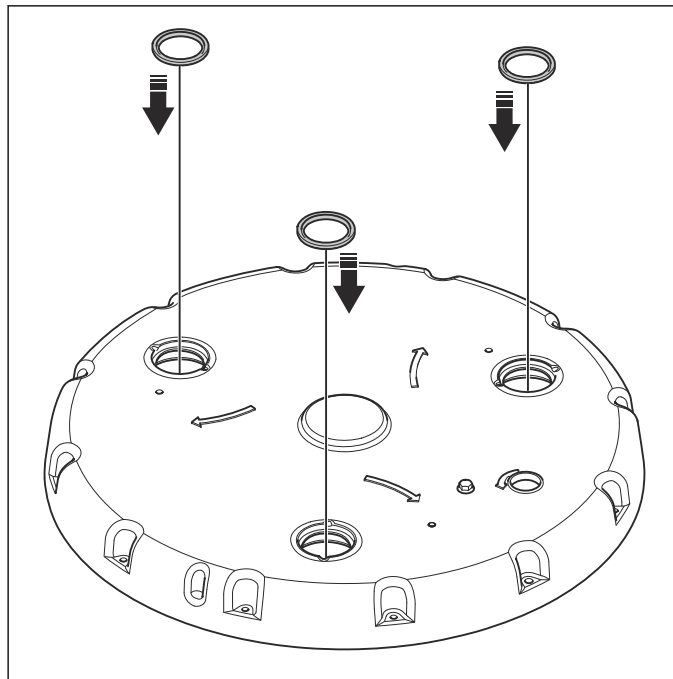


2. Discard the radial shaft seals.



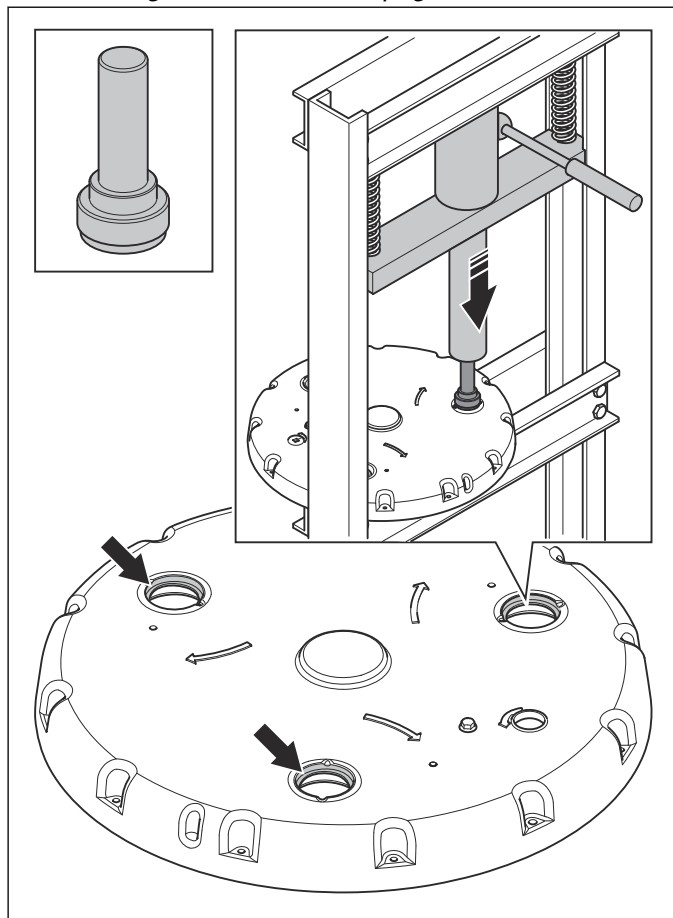
7.3.2 To install the radial shaft seals

1. Put 3 new radial shaft seals on top of the holes in the lid.

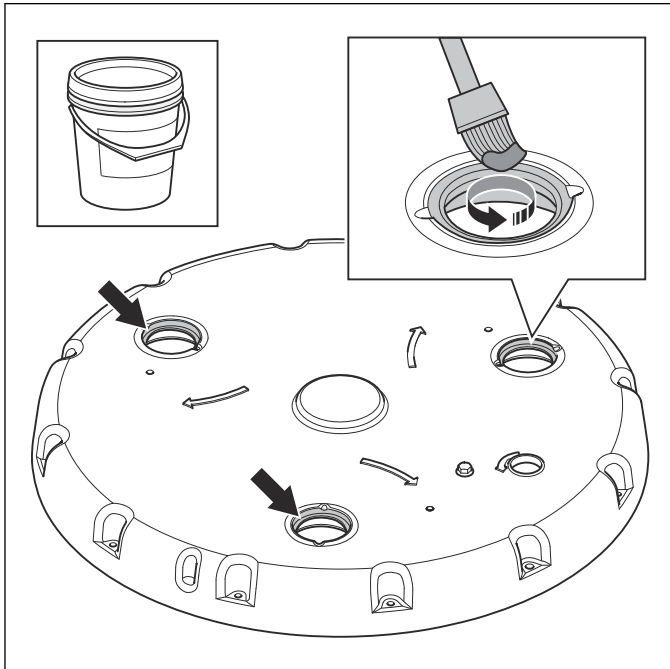


Note: Make sure that the flat side of the radial shaft seal points down in the lid. Refer to the picture.

2. Push the radial shaft seals into the holes. Use a press and a press tool for the radial seals. Refer to *Servicing tools overview* on page 12.



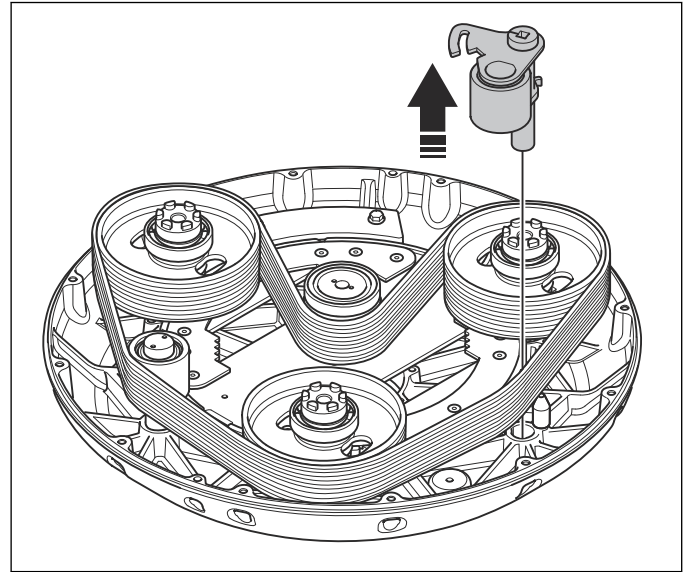
3. Apply grease. Refer to *Servicing tools overview on page 11*.



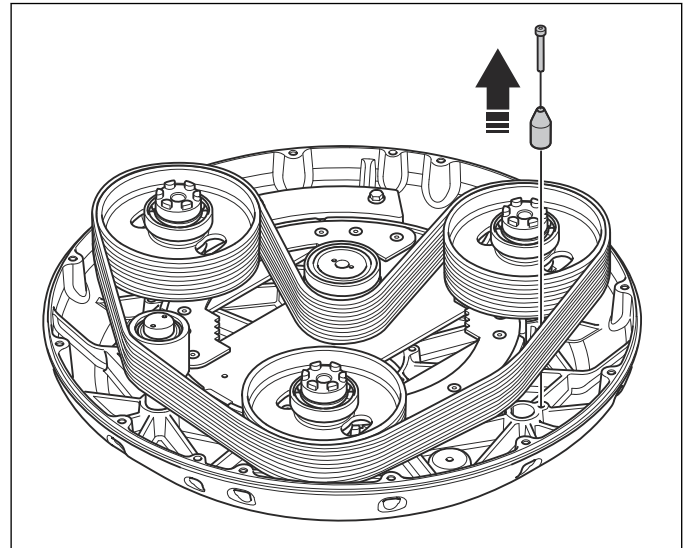
7.4 Belt tensioner

7.4.1 To remove the belt tensioner

1. Remove the belt tensioner from the housing.

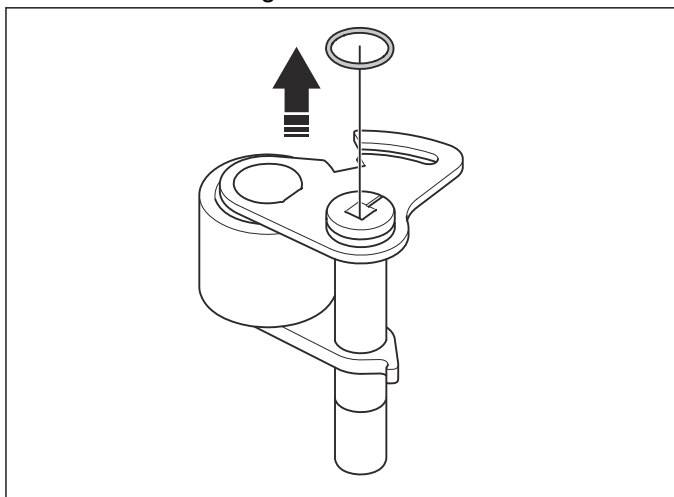


2. Remove the belt tensioner stop.

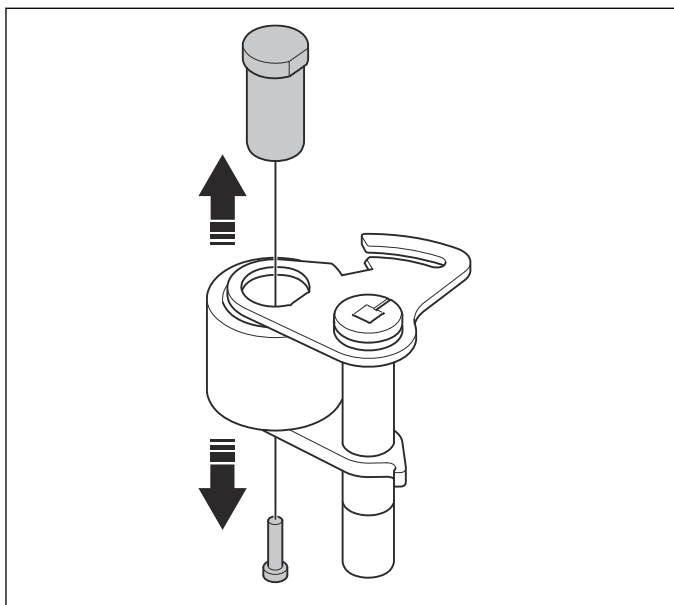


7.4.2 To disassemble the belt tensioner

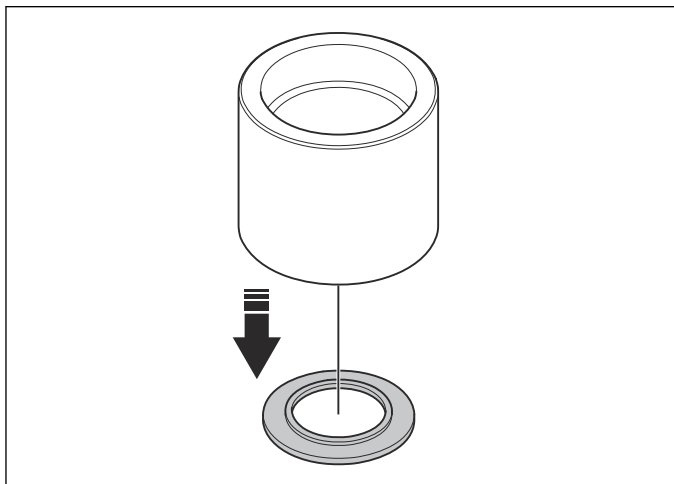
1. Remove the O-ring from the belt tensioner.



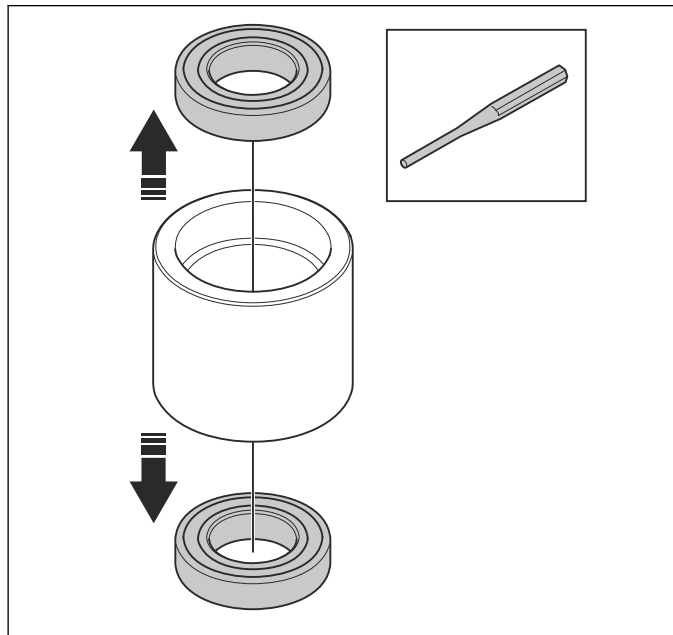
2. Remove the idler shaft.



3. Remove the washer.

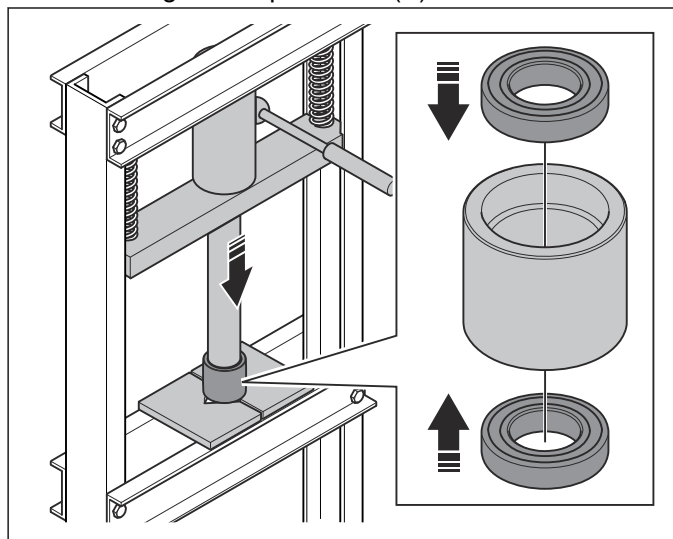


4. Remove the bearings from the idler pulley. Use a mandrel.



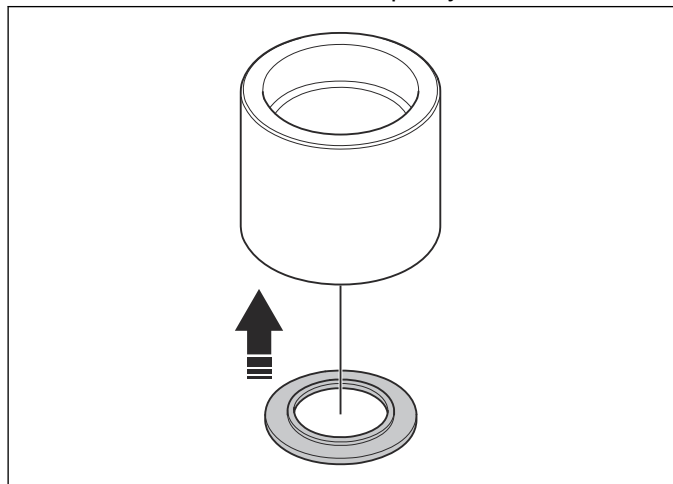
7.4.3 To assemble the belt tensioner

1. Push the bearings into the idler pulley. Use a force of 2000 kg. Use a press tool (A).

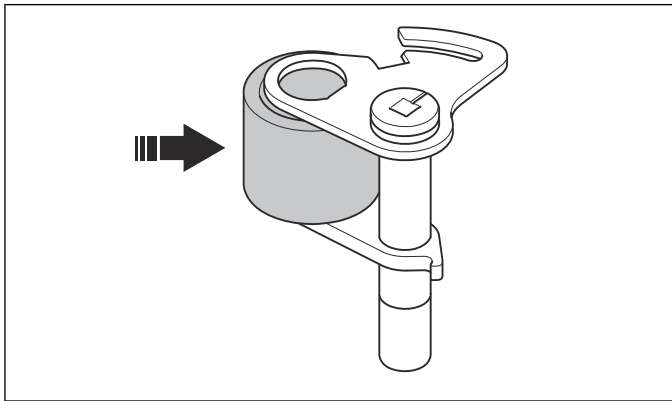


Tool number: 593 54 19-01.

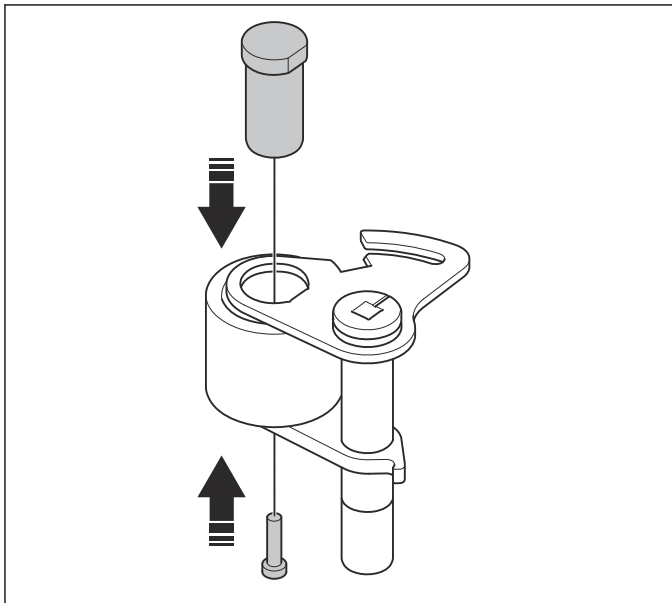
2. Put the washer into the idler pulley.



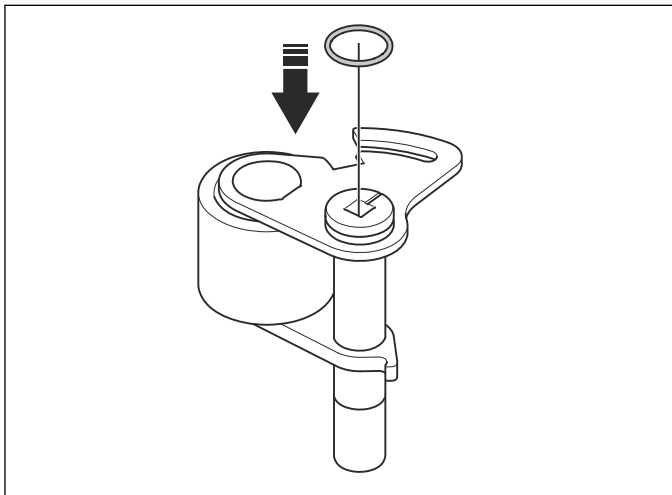
3. Put the idler pulley into the belt tensioner.



4. Put the idler shaft into the belt tensioner.

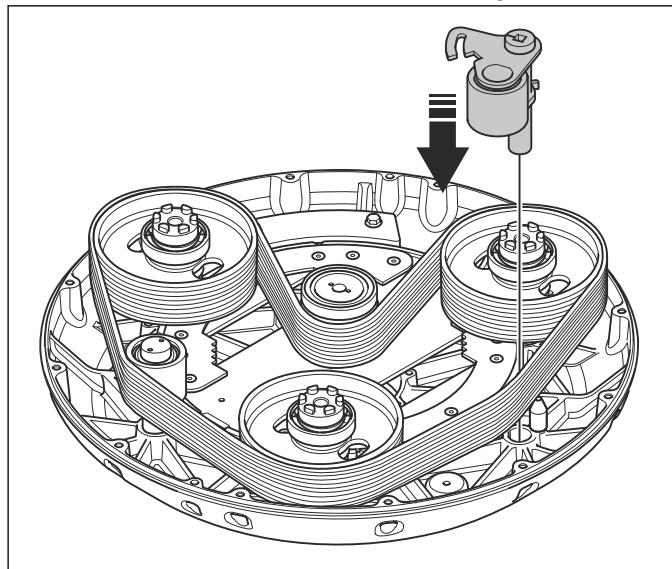


5. Put the O-ring onto the belt tensioner.

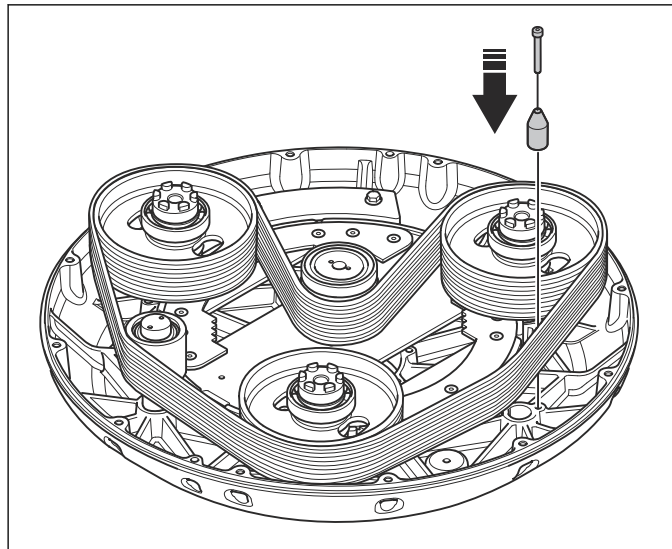


7.4.4 To install the belt tensioner

1. Install the belt tensioner in the housing.



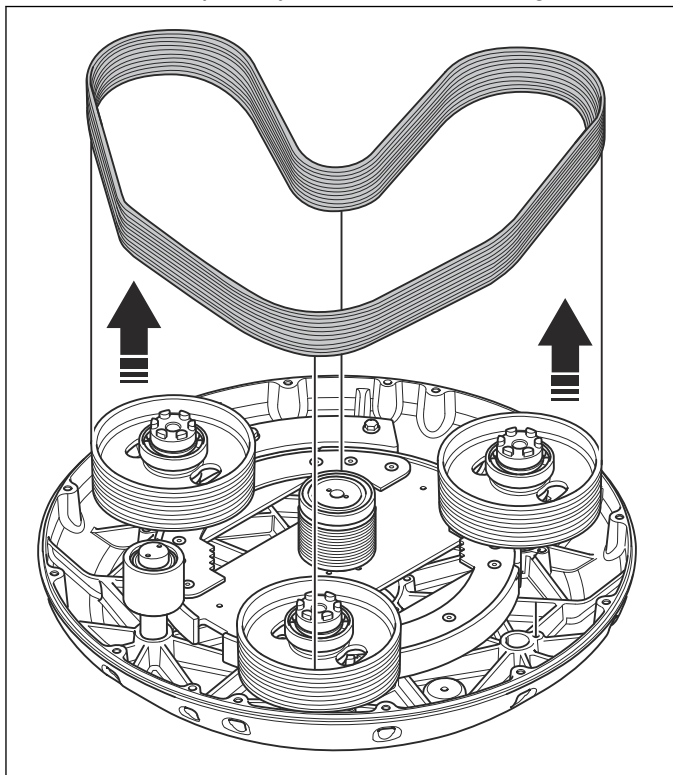
2. Install the belt tensioner stop.



7.5 Primary belt

7.5.1 To remove and install the belt

1. Remove the primary belt from the housing.



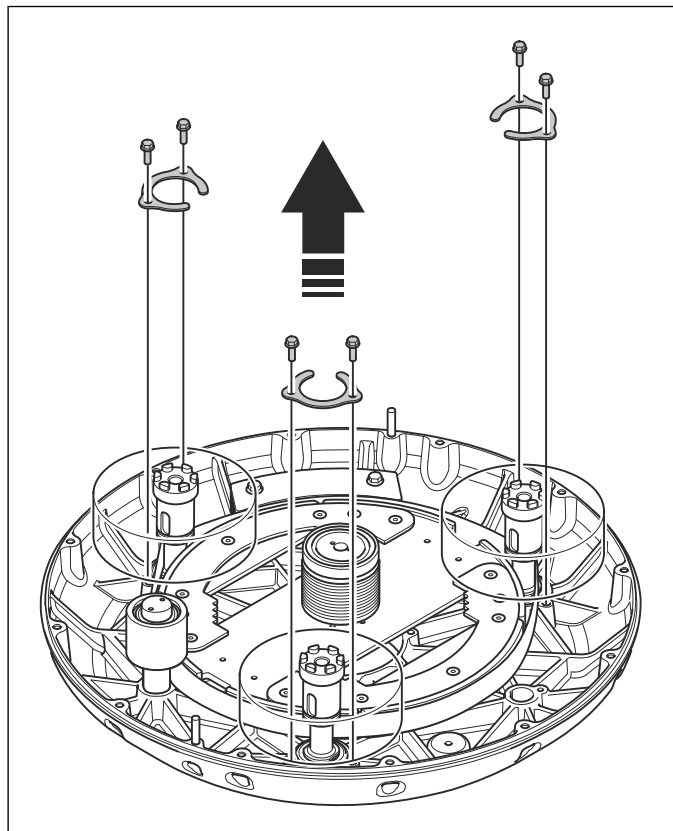
2. Install in opposite sequence.

Note: Make sure that the drive belt ribs align with the grooves on the pulley.

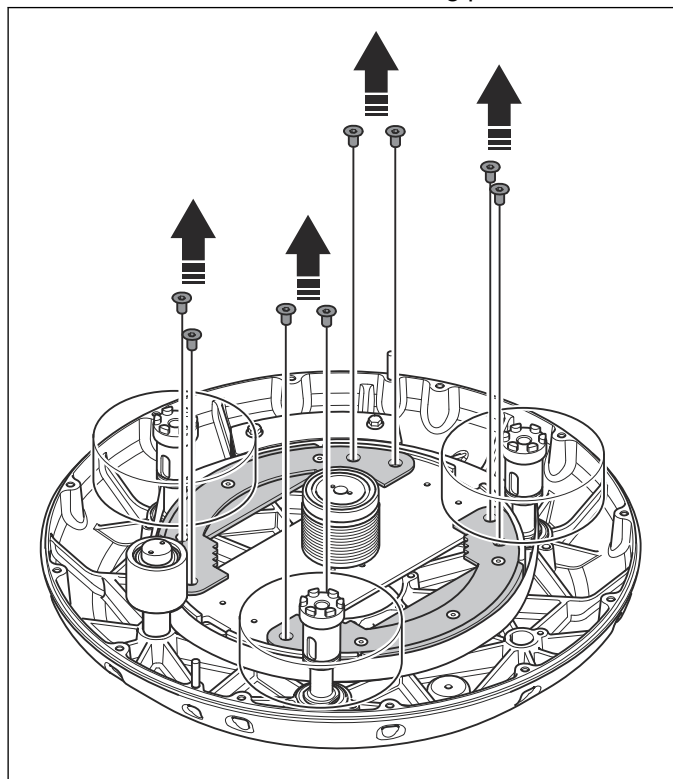
7.6 Hub assemblies

7.6.1 To remove the hub assemblies

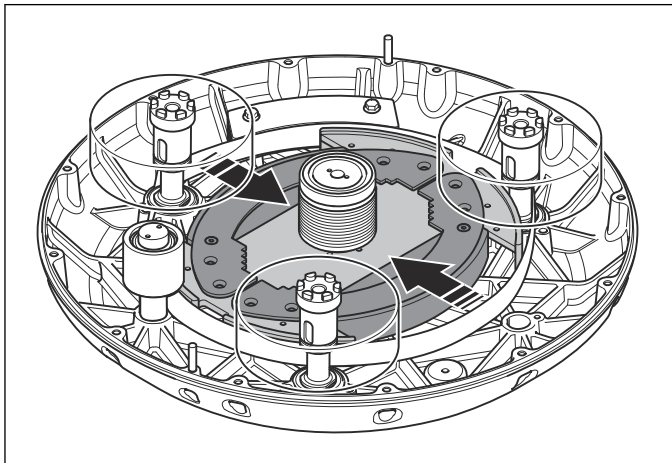
1. Remove the screws and the 3 washers.



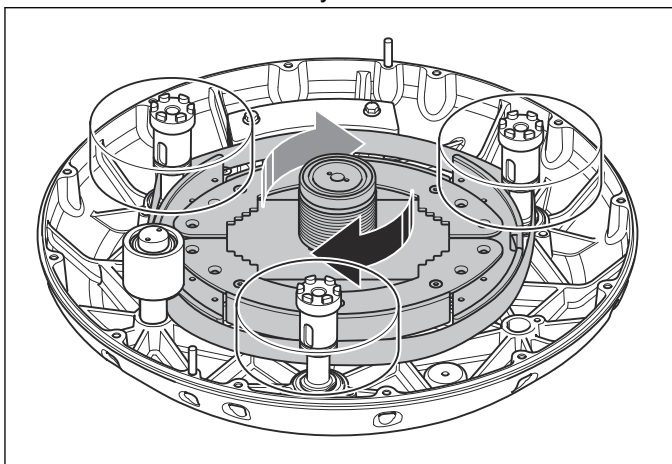
2. Remove the screws for the locking plates.



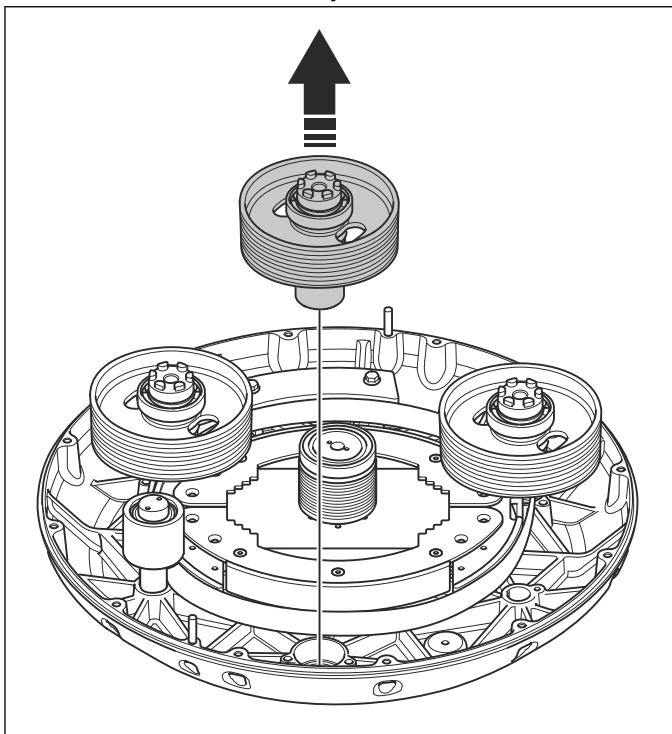
3. Push in the locking plates.



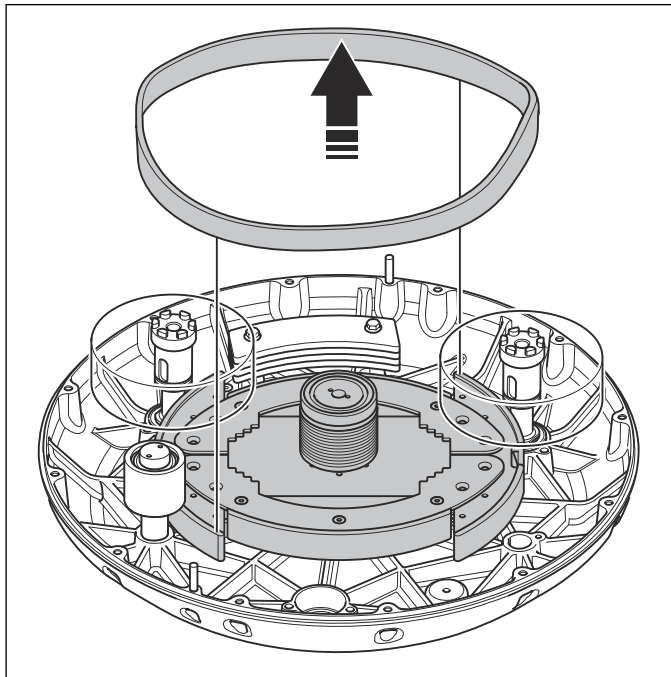
4. Turn the secondary pulley to make it possible to remove 1 hub assembly.



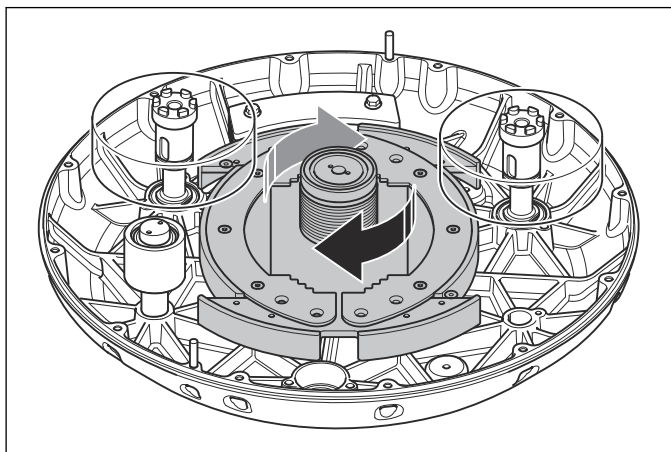
5. Remove 1 hub assembly.



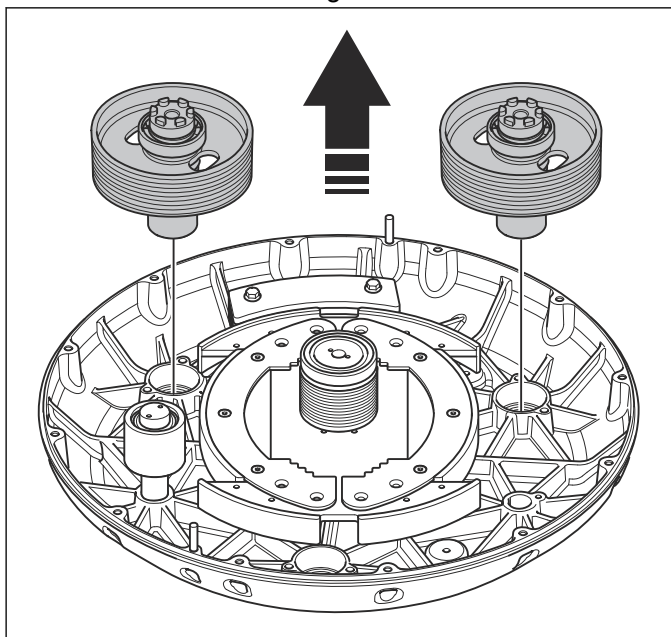
6. Remove the secondary belt.



7. Turn the secondary pulley to make it possible to remove the other 2 hub assemblies.

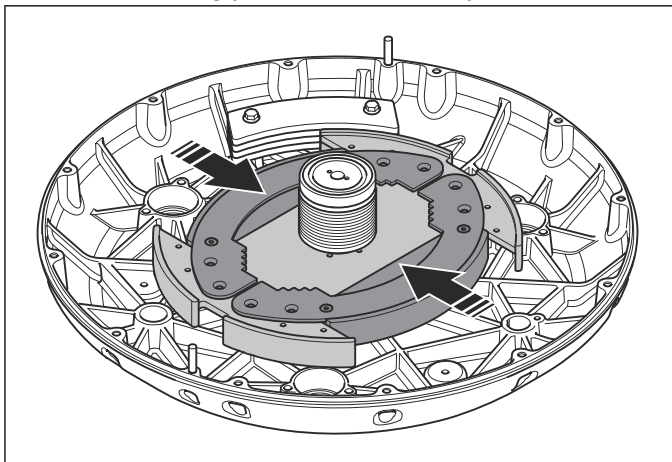


8. Remove the 2 remaining hub assemblies.

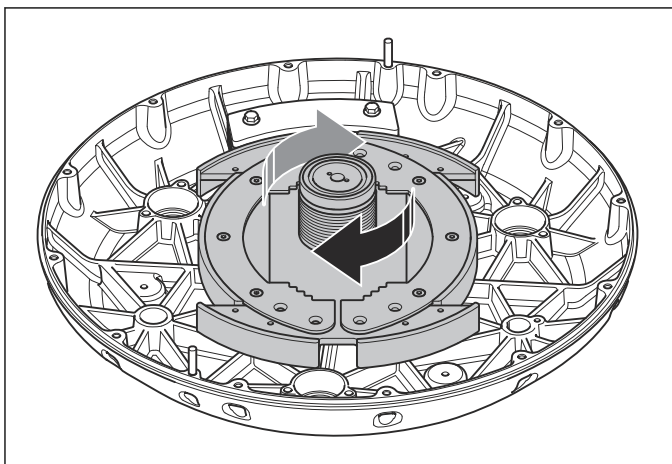


7.6.2 To install the hub assemblies

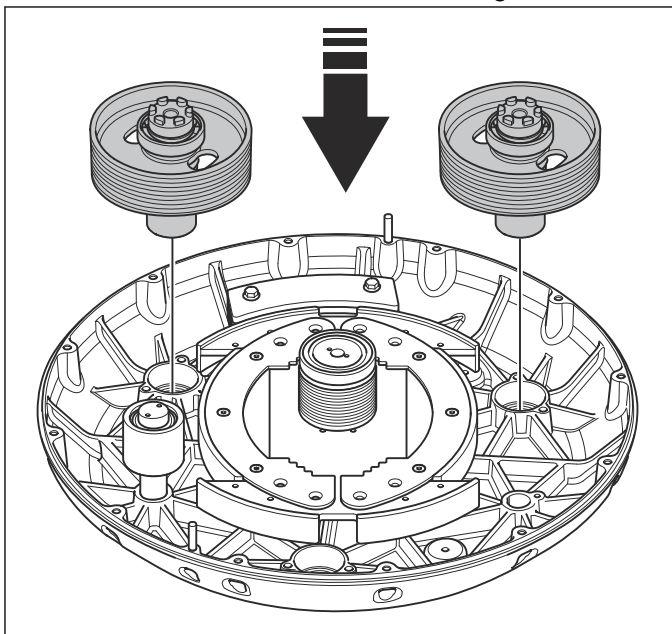
1. Put the locking plates at their inner position.



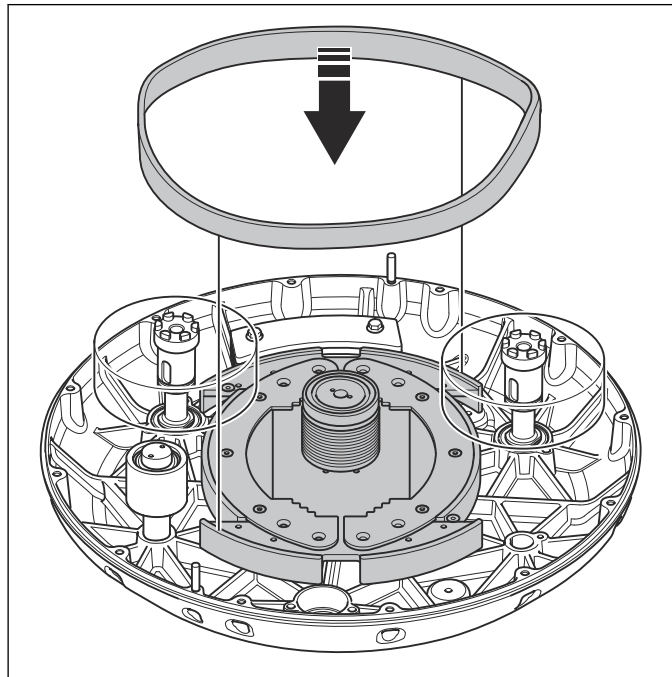
2. Move the secondary pulley into a position where you can install 2 hubs.



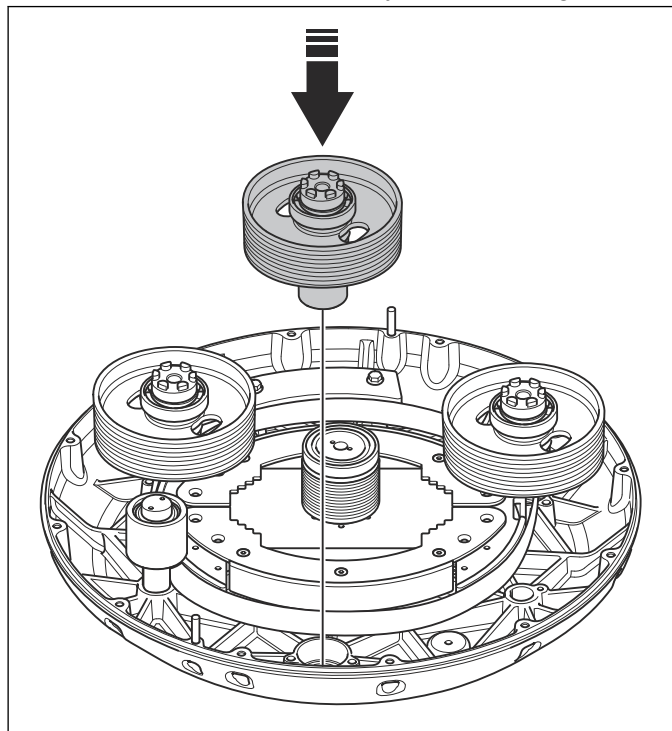
3. Install 2 hub assemblies in the housing.



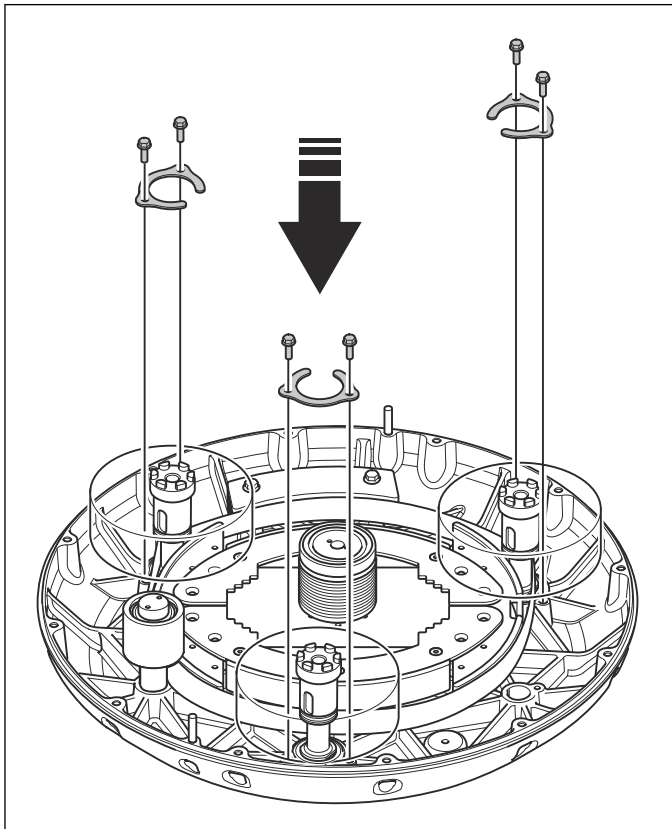
4. Install the secondary belt.



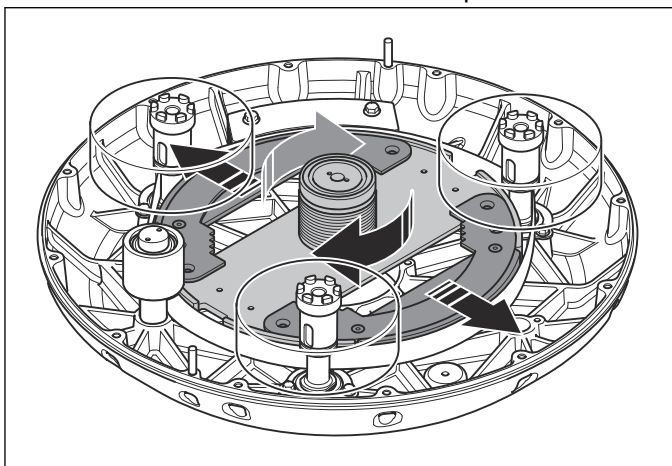
5. Install the third hub assembly in the housing.



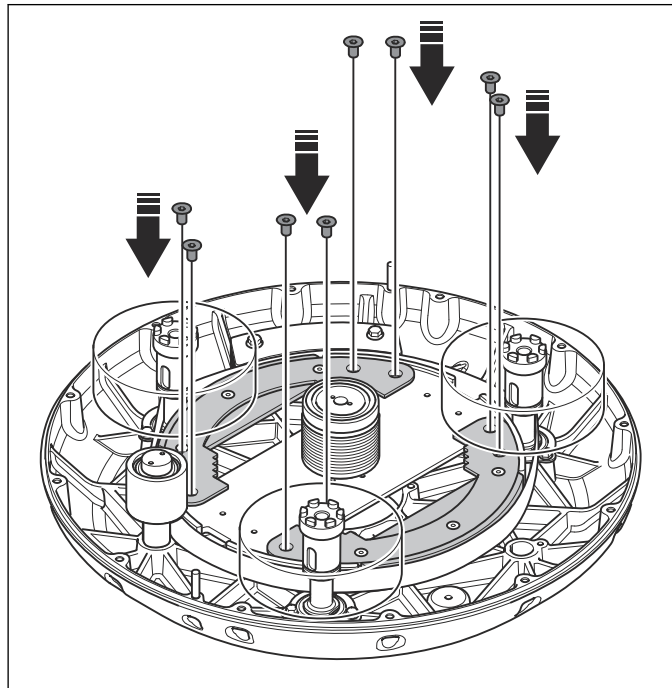
6. Install the washers and the screws.



7. Put the belt tensioners in the outer positions.

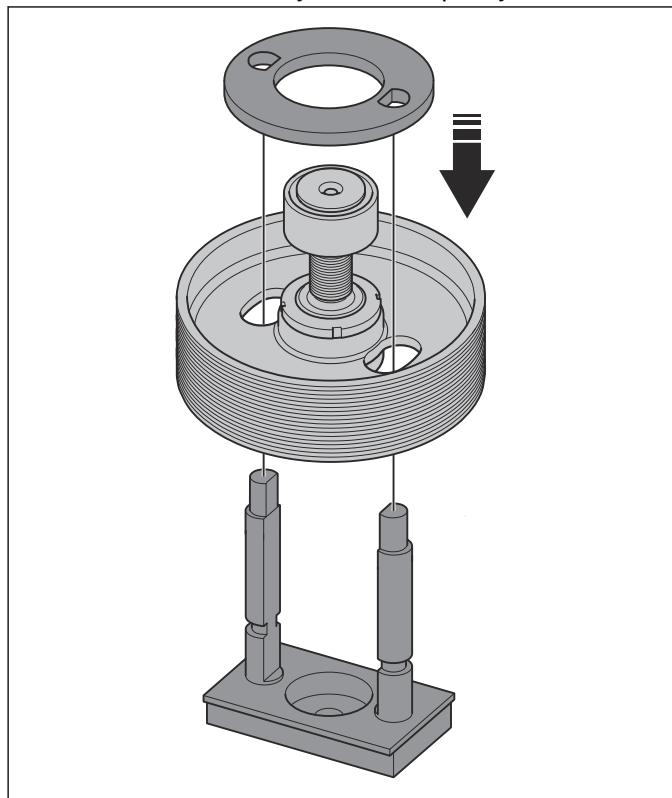


8. Put the screws.



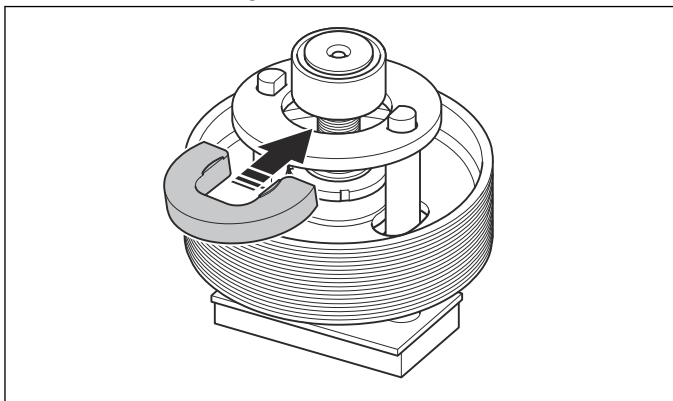
7.6.3 To disassemble the hub assembly

1. Put the hub assembly in the hub pulley tool.



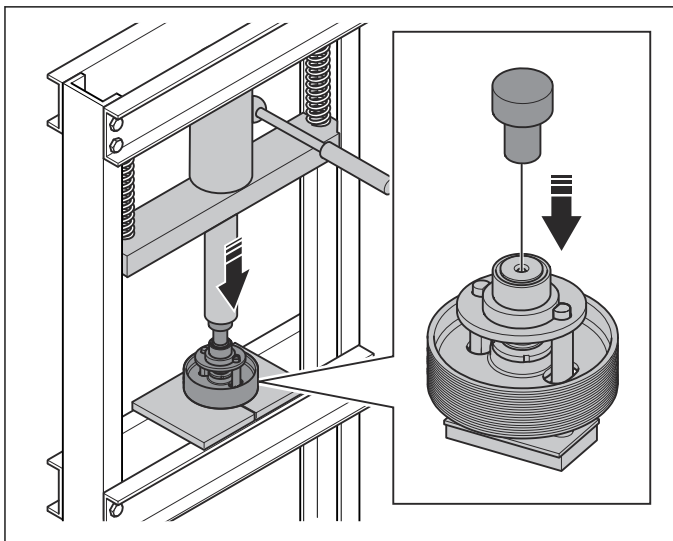
Tool number: 593 53 68-01

2. Install the bearing extractor bracket.

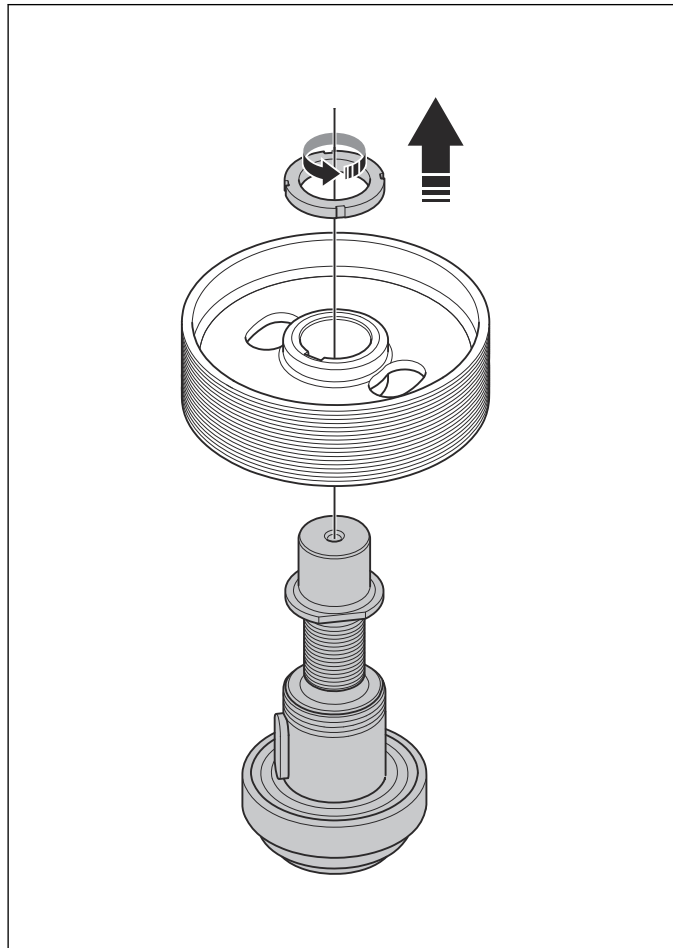


Tool number: 593 54 52-01

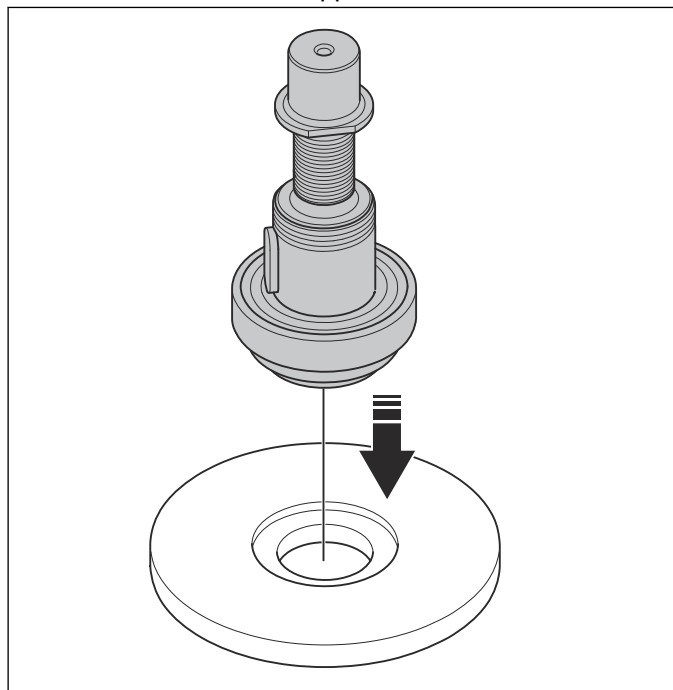
3. Put the assembly in a press. Push in the bearing with the mandrel.



4. Remove the pulley.

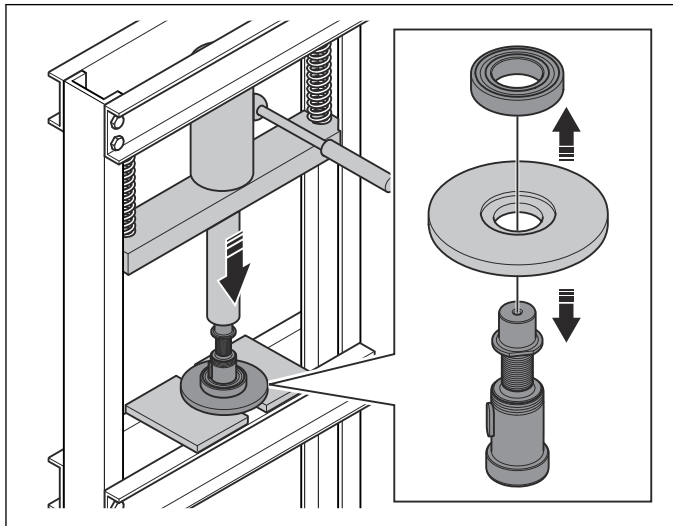


5. Put the shaft on the support.



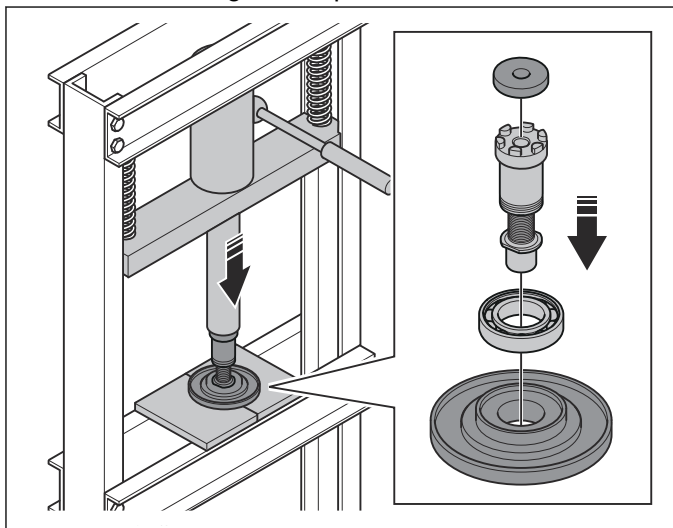
Tool number: 593 54 43-01

6. Remove the bearing with a press.



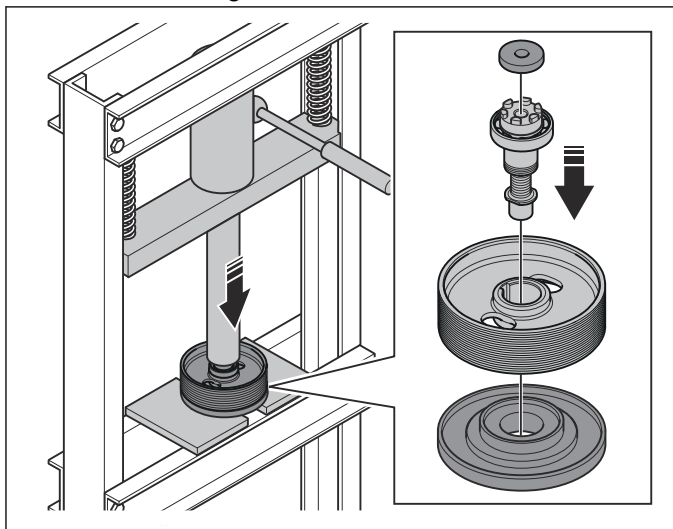
7.6.4 To assemble the hub assembly

1. Push the bearing onto the hub assembly. Use a force of 2000 kg. Use a press tool.

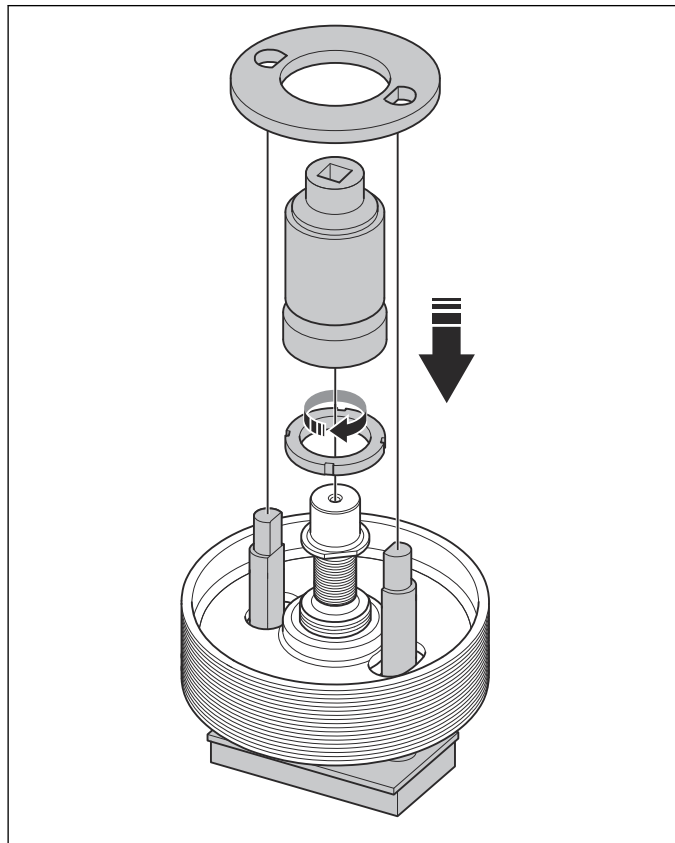


Tool number: 593 54 16-01

2. Push the pulley wheel onto the grinding shaft. Use a force of 2000 kg.

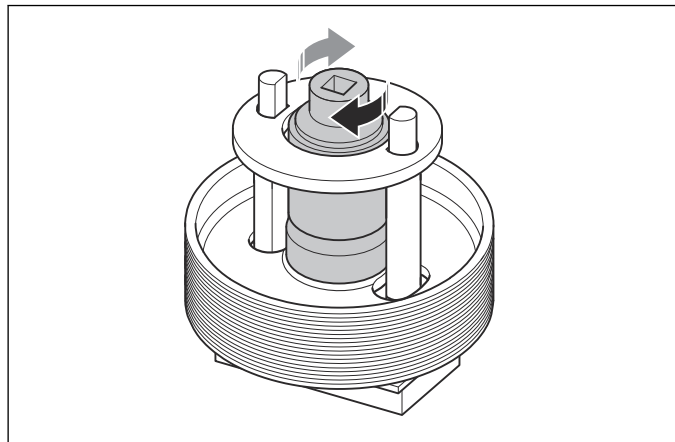


3. Put the hub assembly, the nut and the socket in the tool.

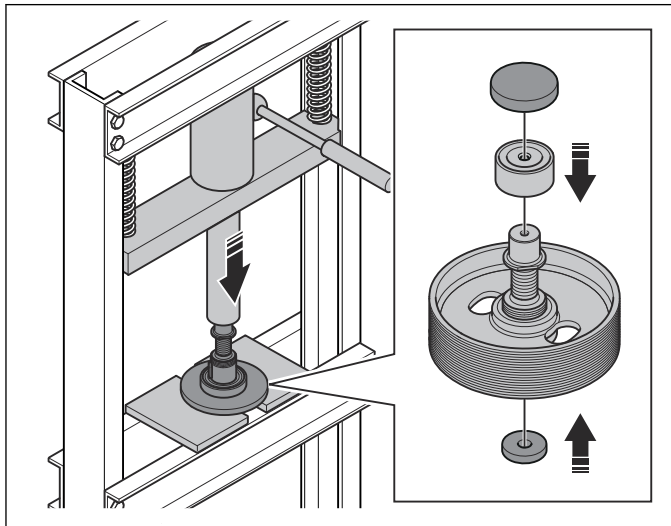


Tool number: 593 54 17-01

4. Tighten the nut with a torque wrench.

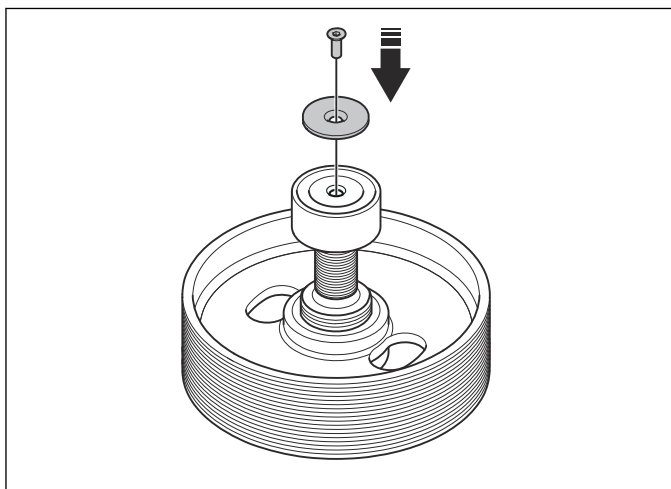


5. Push the bearing with a support and a mandrel.



Tool number: 593 54 18-01

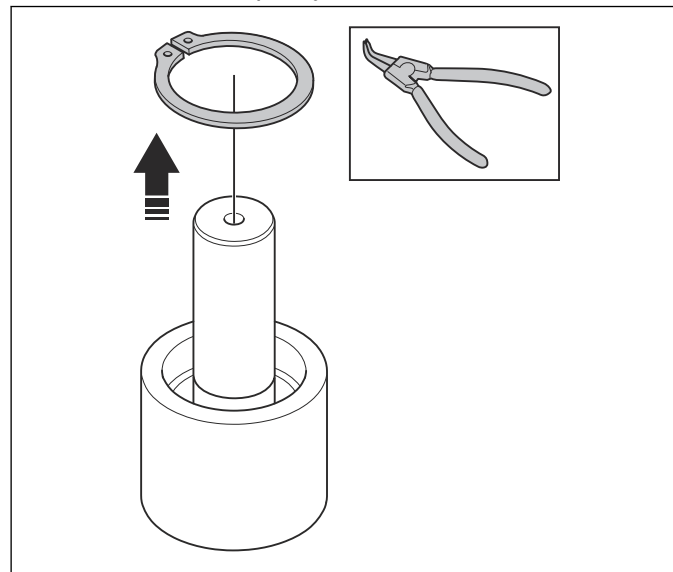
6. Install the washer and the nut.



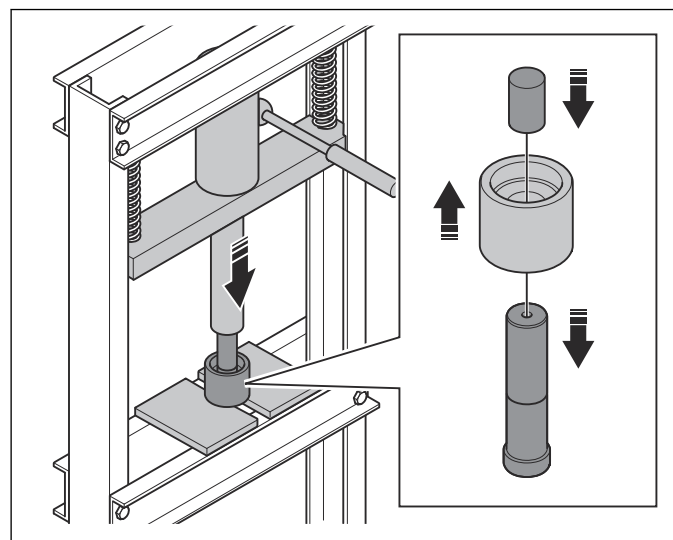
7.7 Idle pulleys

7.7.1 To disassemble the idle pulleys

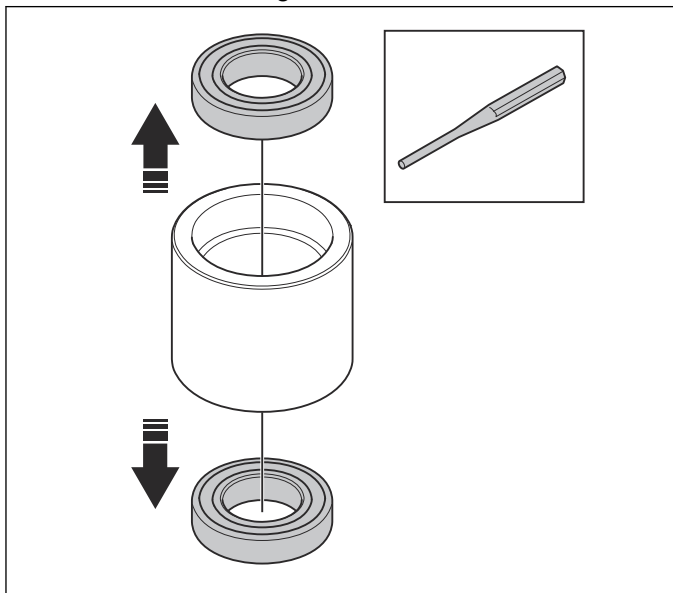
1. Remove the idle pulley.



2. Remove the shaft with a press. Use a mandrel with a maximum diameter of 16 mm.

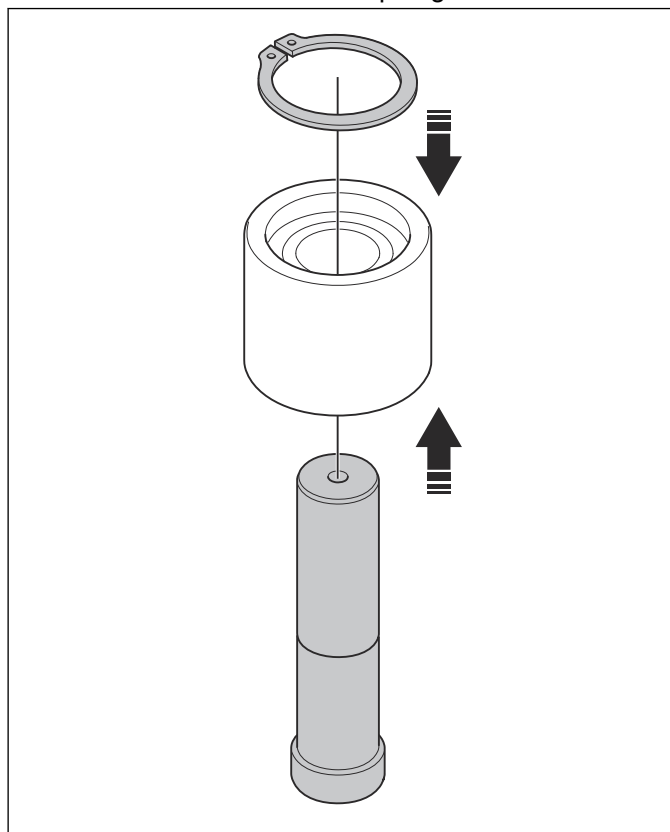


3. Remove the bearings with a mandrel.



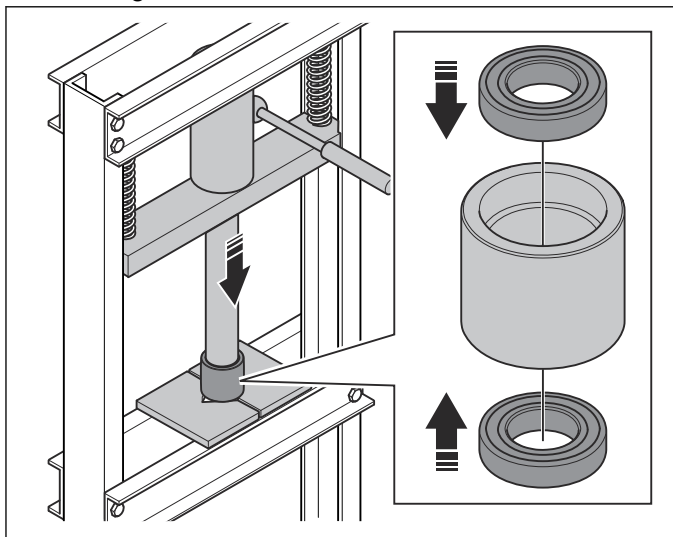
Tool number: 593 54 19-01

2. Install the shaft and the snap ring.



7.7.2 To assemble the idle pulleys

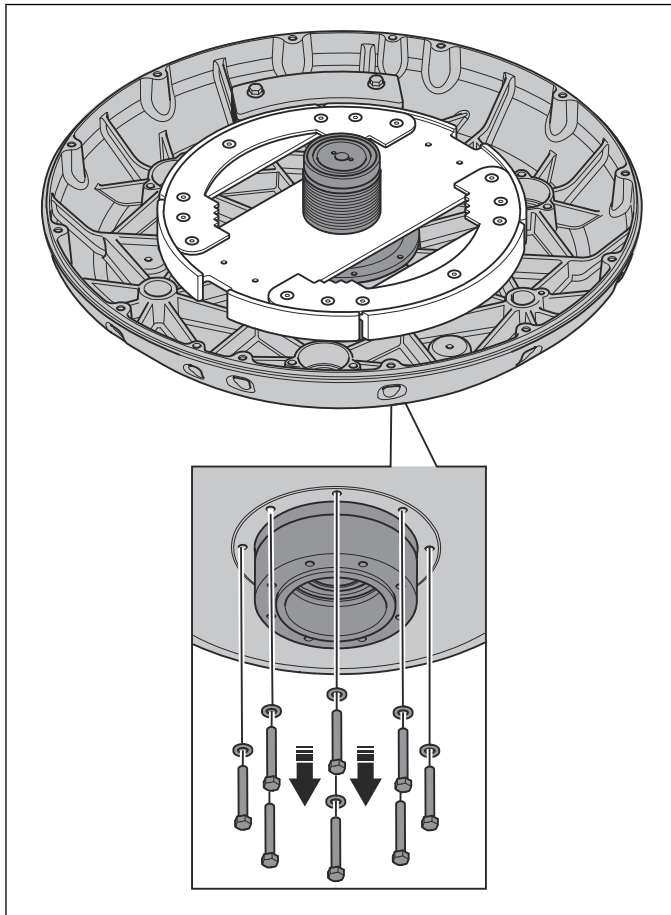
1. Push the bearings with the mandrel. Use a force of 2000 kg.



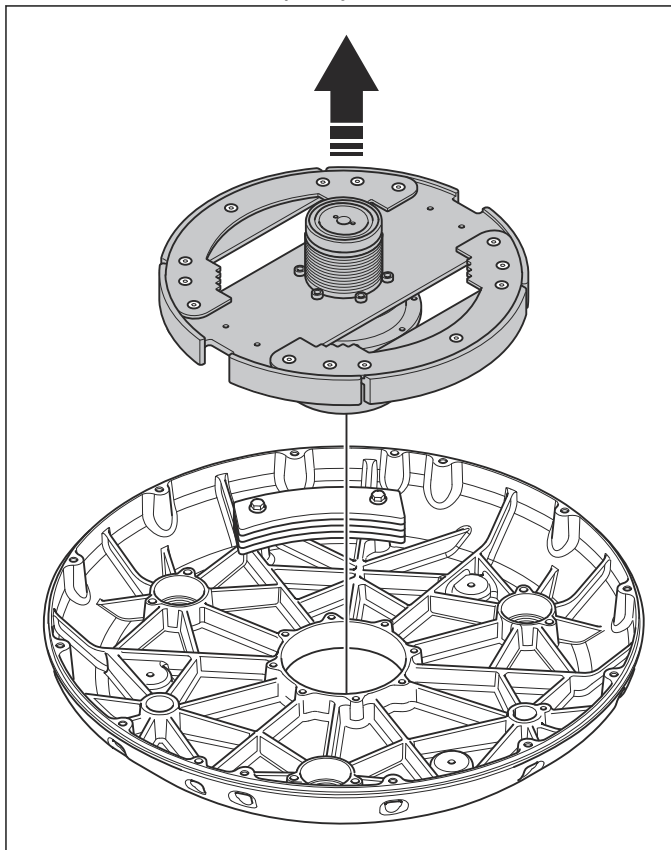
7.8 Center pulley

7.8.1 To remove and install the center pulley

1. Remove the screws for the center pulley.



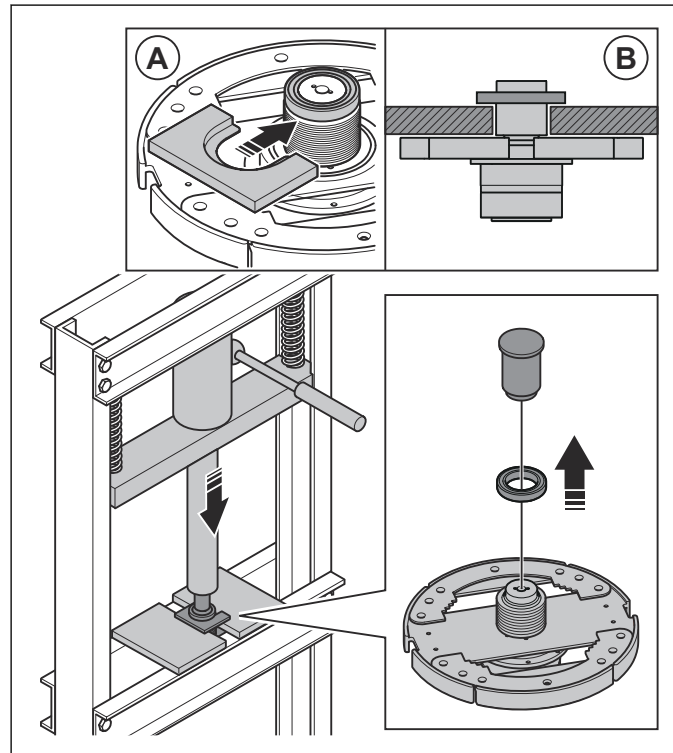
2. Remove the center pulley.



3. Install in opposite sequence.

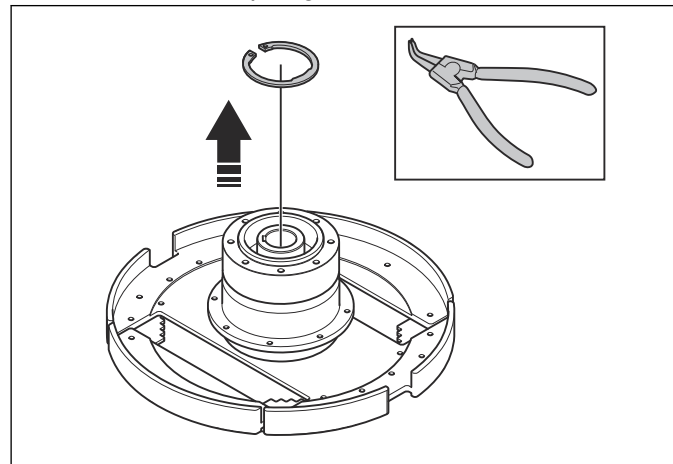
7.8.2 To disassemble the secondary pulley

1. Remove the bearing from the pulley center.

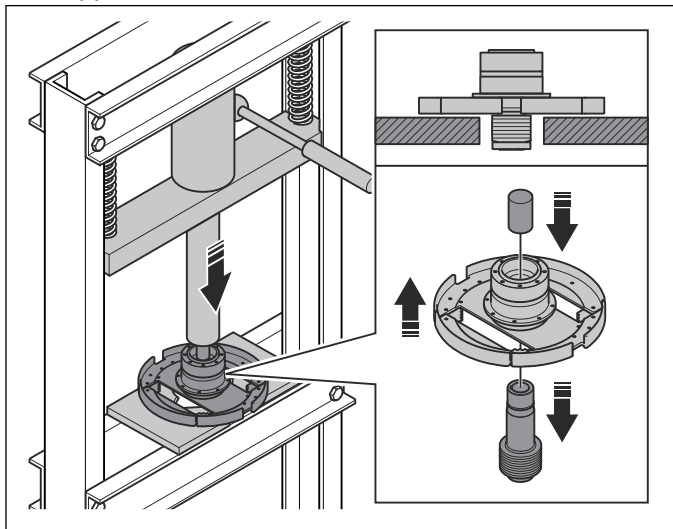


Tool number: 593 54 30-01

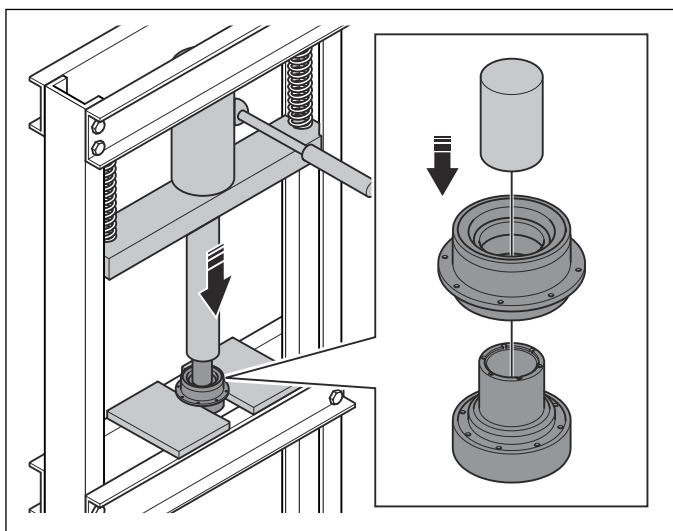
2. Remove the snap ring.



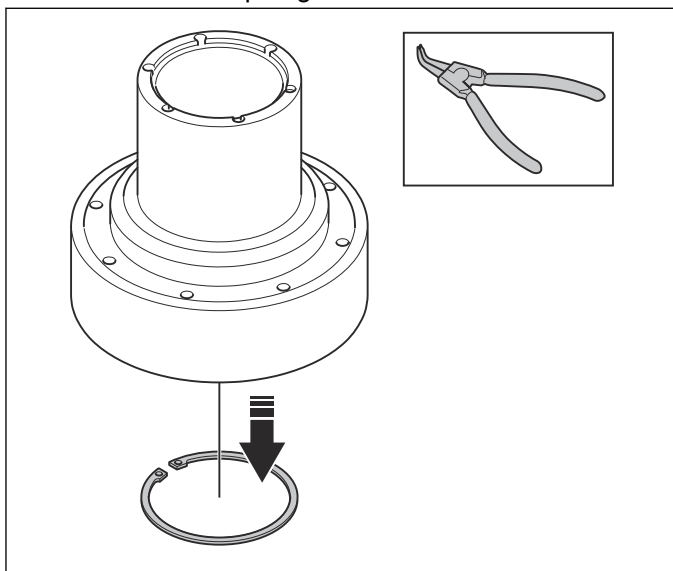
3. Push out the center pulley. Make sure that there is support below the area of the center hub.



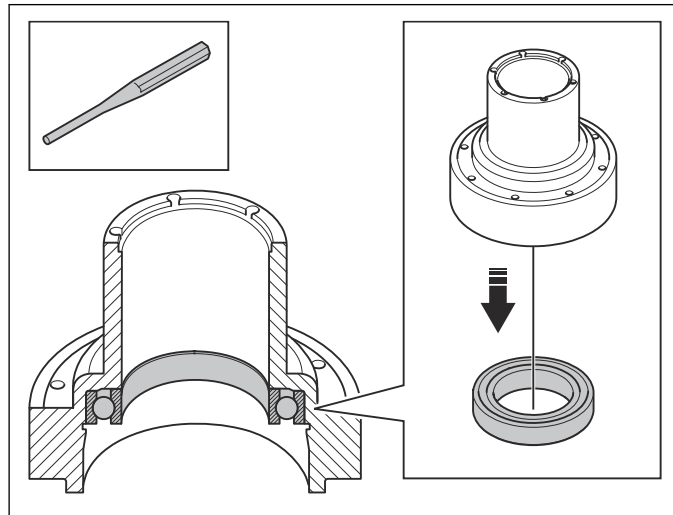
4. Push out the inner center hub.



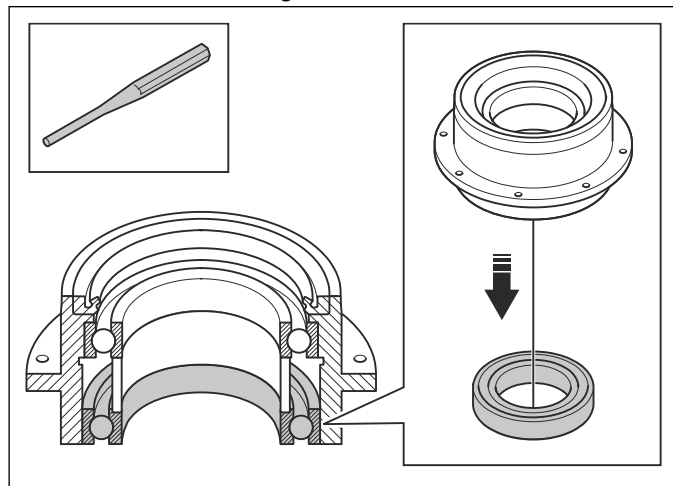
5. Remove the snap ring.



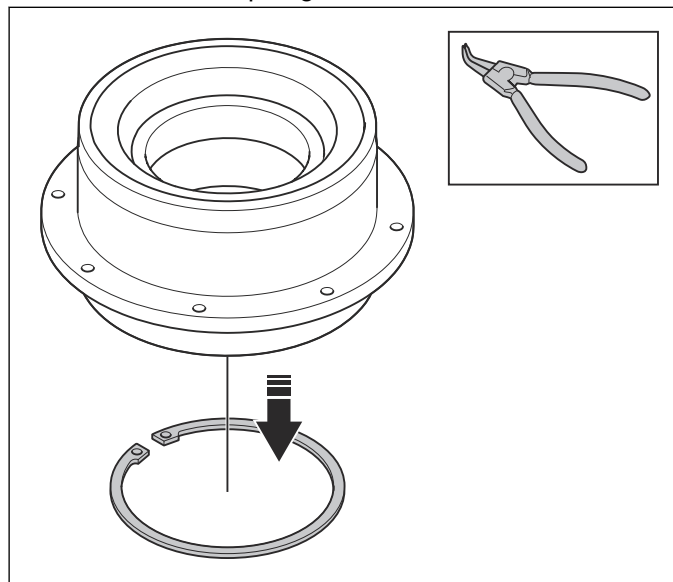
6. Remove the bearing.



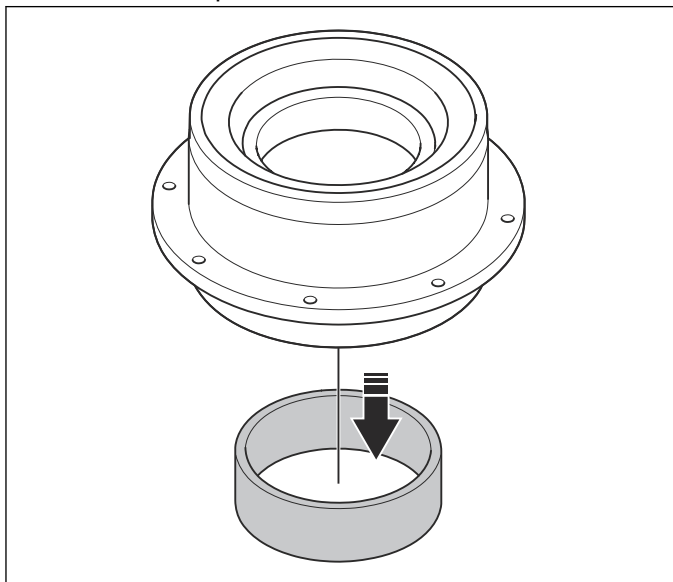
7. Remove the bearing with a mandrel.



8. Remove the snap ring.

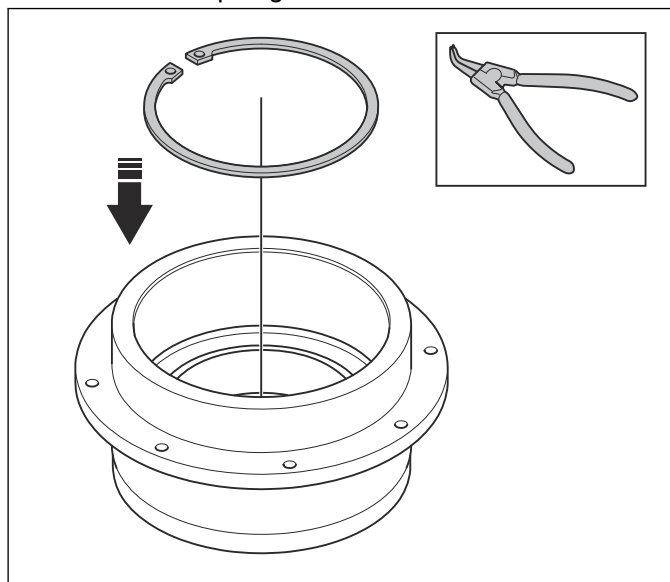


9. Remove the spacer.

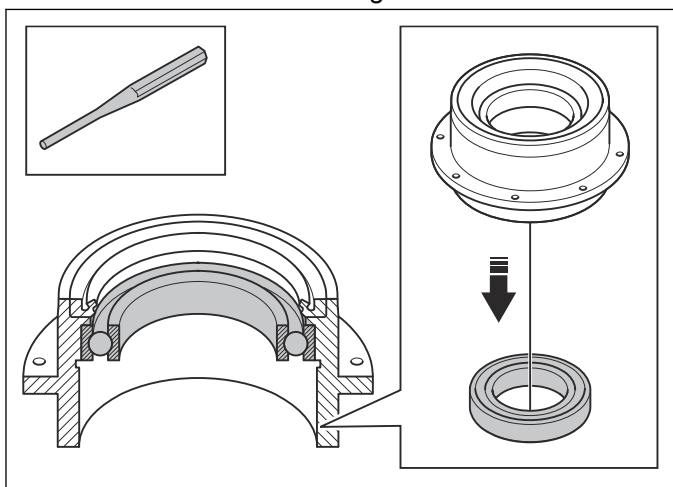


Tool number: 593 54 09-01

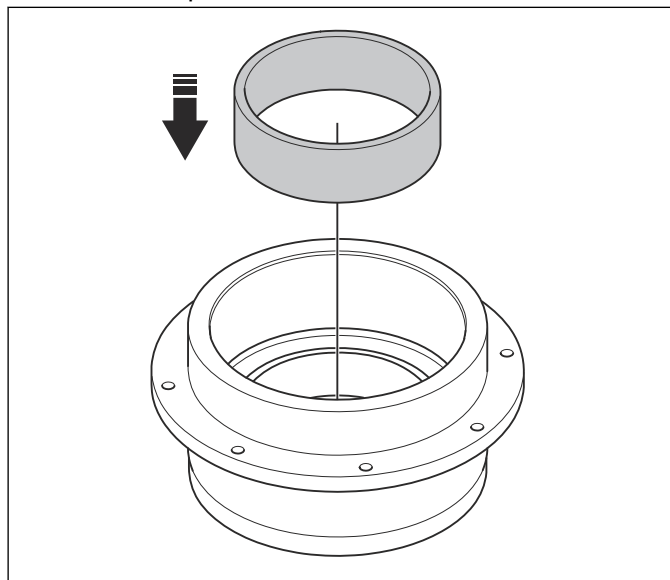
2. Install the snap ring.



10. Remove the second bearing with a mandrel.

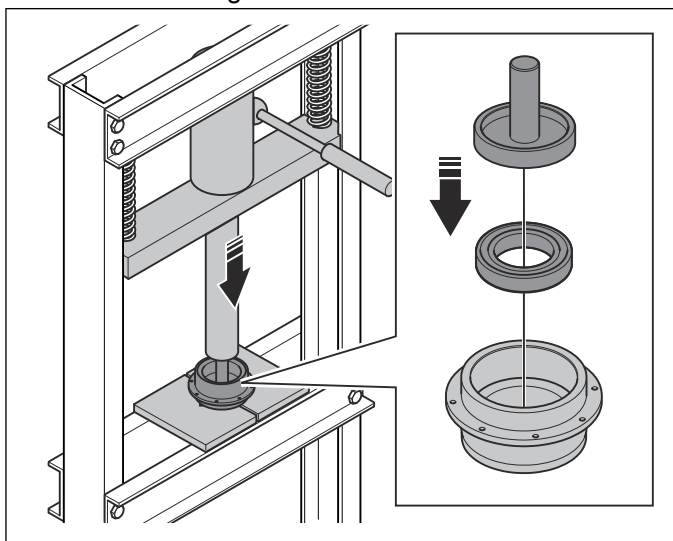


3. Install the spacer.

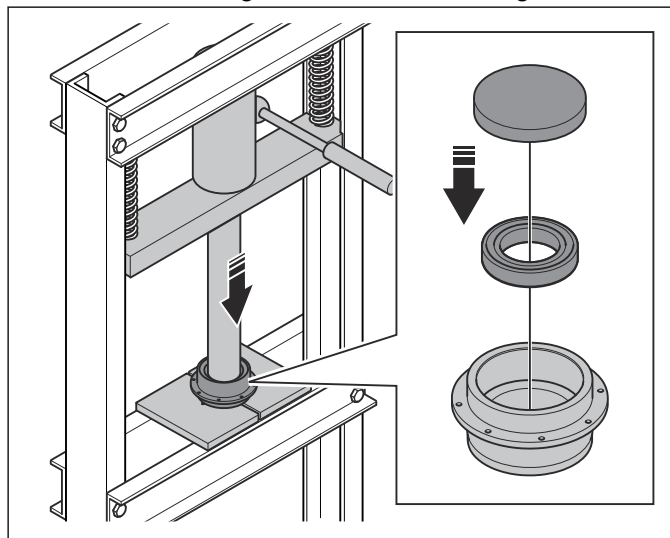


7.8.3 To assemble the secondary pulley

1. Push the bearing into the outer center hub with a force of 2000 kg.

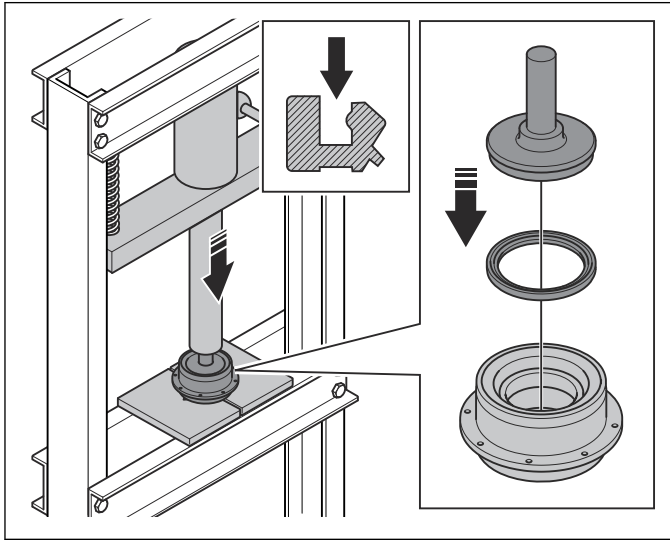


4. Push the bearing with a force of 2000 kg.



Tool number: 595 75 94-01

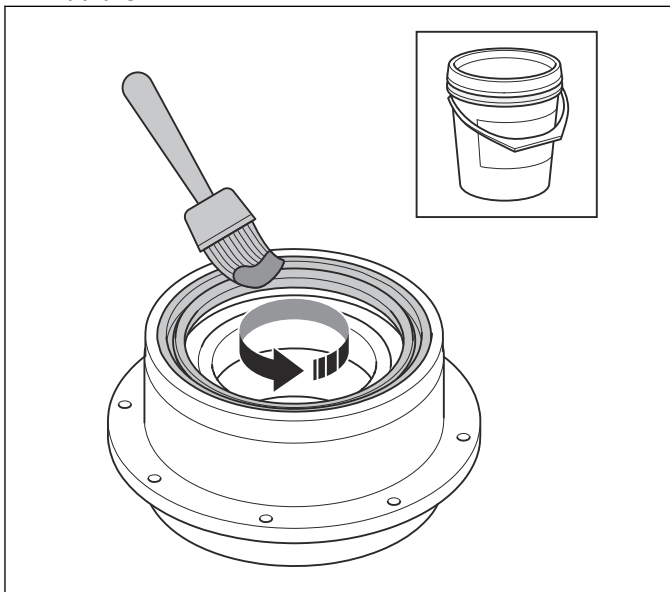
5. Push the radial seal with a force of 2000 kg.



Note: Make sure that the flat side of the radial shaft seal points down into the center hub.

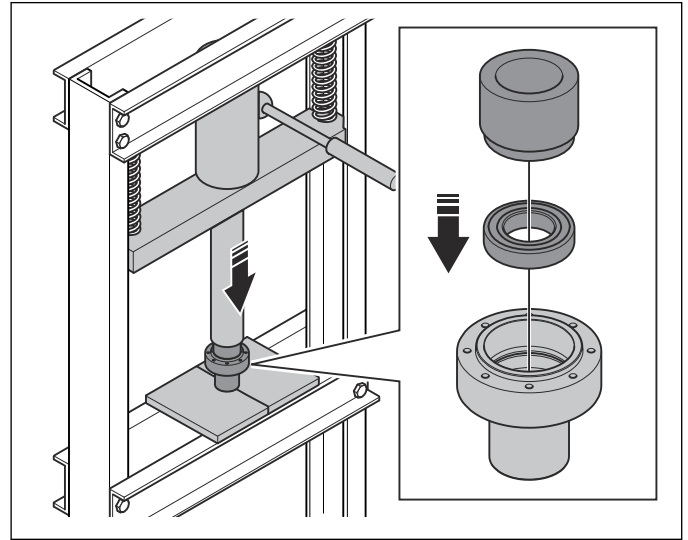
Tool number: 593 54 11-01

6. Apply grease to the radial seal.



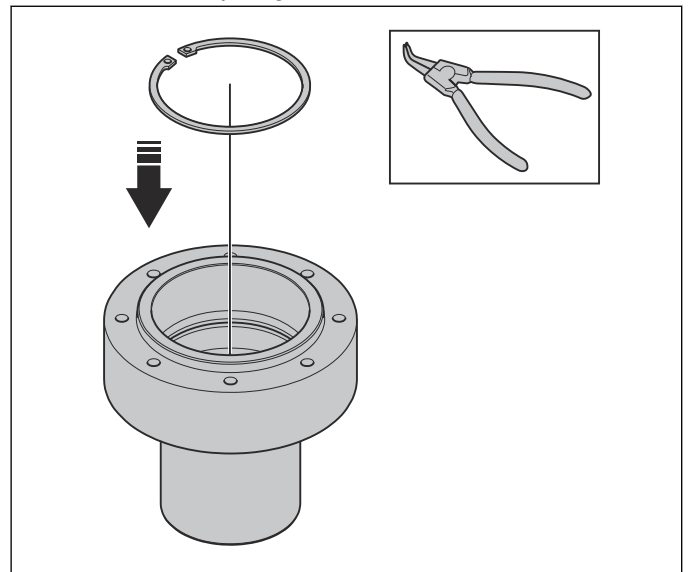
Use Molykote W2 Multipurpose grease

7. Push the bearing into the center hub.

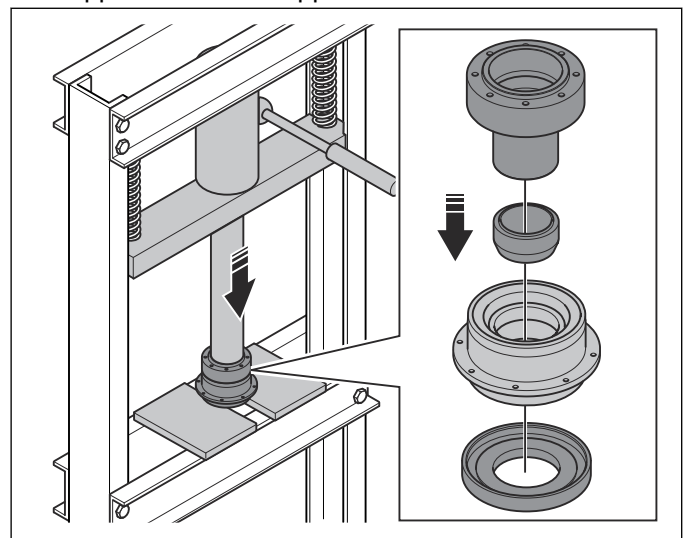


Tool number: 593 54 12-01.

8. Install the snap ring.

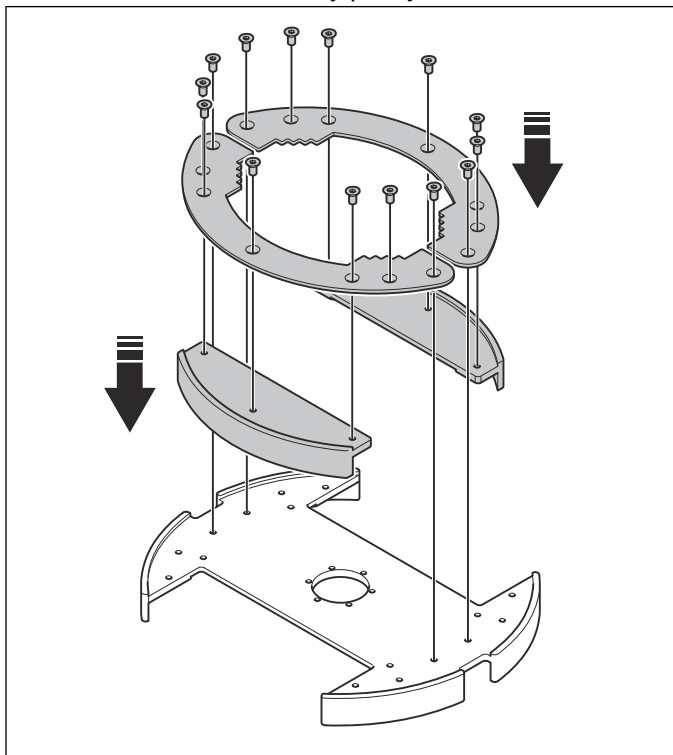


9. Push the inner and outer center hubs. Use the support cone and support.

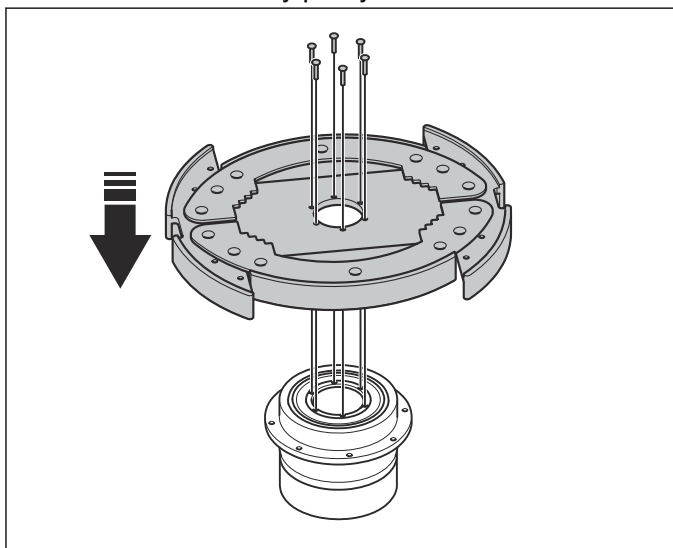


Tool numbers: 593 54 51-01, 593 54 13-01.

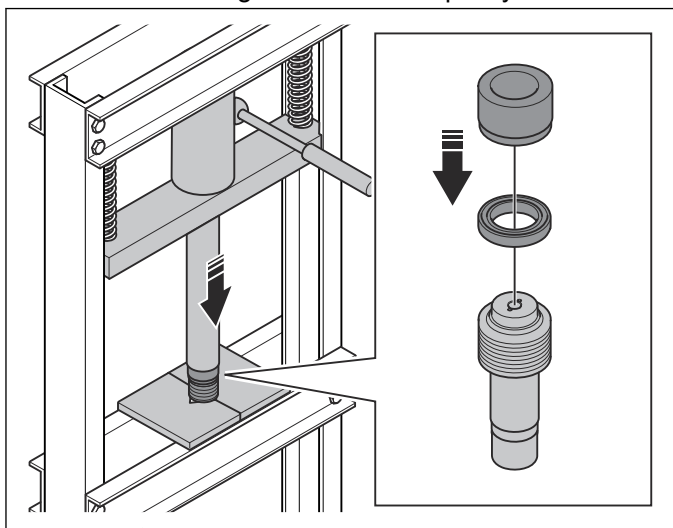
10. Assemble the secondary pulley.



11. Install the secondary pulley on the center hub.

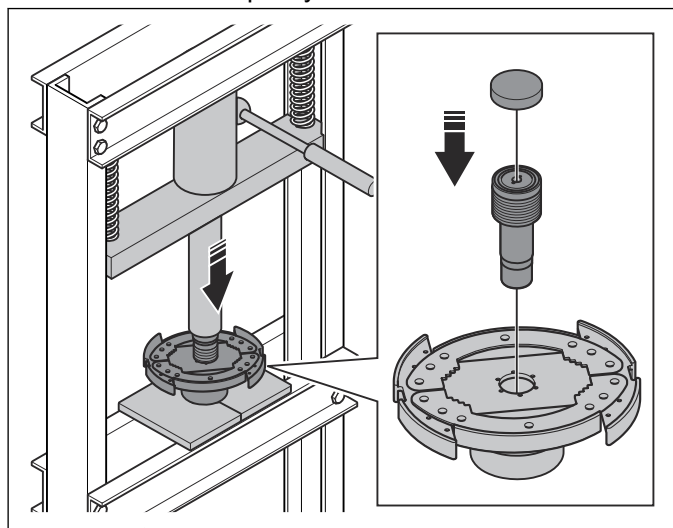


12. Push the bearing onto the center pulley.



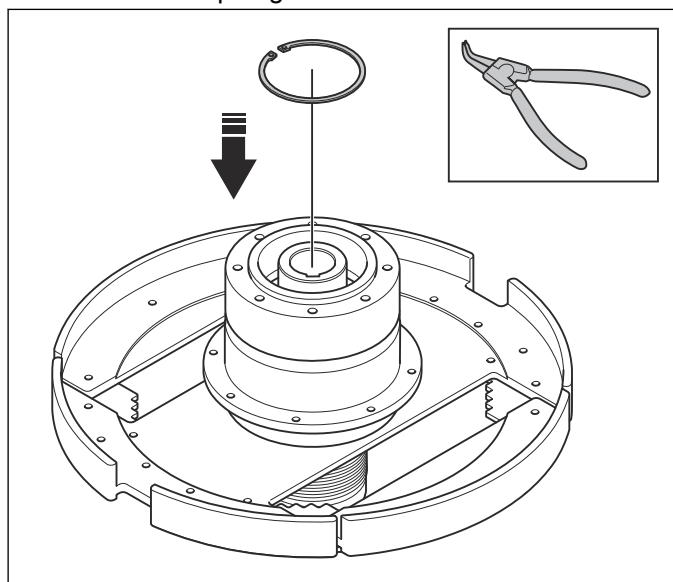
Tool number: 593 54 12-01

13. Push the center pulley into the center hub.



Tool number: 593 54 14-01

14. Install the snap ring.



8 Troubleshooting

8.1 To do a function test of the grinding head

1. Put the product in servicing position to get access to the grinding discs.
2. Turn the grinding discs by hand. Make sure that they are stable and that they can move freely without friction and noise.
3. Examine the brush strip.
4. Examine all parts of the vibration damping system.
5. Examine the tool holders for wear.
6. Tighten the screws.
7. Put the product back to operation position.

8.2 Troubleshooting

Problem	Examine	Cause	Solution
The engine does not start, or the engine stops during operation.	Emergency stop button	The emergency stop button is engaged.	Disengage the emergency stop button.
	Oil level	The oil pressure is too low.	Do a check of the engine oil level. Fill engine oil if necessary.
	Emissions	The emissions are too high.	If the emission warning light is solid, emissions are too high. Move the product to an open area and start the product again. If the warning light comes on again and is solid, do a check of the regulator and exhaust with a CO ₂ monitor for ppm indication. The value must be between 50–300 ppm). If the warning light flashes, do a check of the O ₂ sensor in the exhaust and do a check of the connections of the sensor to the module. Replace O ₂ sensor if the connections are correct.
		There is a loss of voltage in the system because of a broken fuse or relay.	Do a check of the emissions electrical system: the lockoff valve, the relays and the emission module.
	Propane tank	The fuel level is too low or the temperature of the propane tank is incorrect.	Replace the propane tank.
	Air cleaner	The air filter is clogged.	Replace the air filter.
	Battery	The battery is weak.	Charge or replace the battery.
	Inline fuse	A short circuit caused the inline fuse to break.	Do a check for loose connections. Replace the 100A inline fuse on the battery wire.
The engine stops because the grinding speed is too low.	Propane tank	The propane tank is too cold.	Move the propane tank to a warmer location. If necessary, use a tank heater.
	Propane tank	The level of propane is running low.	Replace or fill propane tank.
	Connectors	Connectors at the engine are loose. There should be a clicking sound from the propane valves on the engine just before the starter motor starts.	Do a check of the connectors.

8.3 Control panel

8.3.1 To use the display

Use the menu button and the set button to control the display.

1. Push the menu button quickly to move between the selections in the display.
2. Push and hold the menu button to go to the selected selection.

3. In the selection, push the menu button quickly to select between ON/OFF.
4. In the selection, push the set button to adjust the selected selection.
5. Push and hold the menu button to lock the selection and go back to main menu.

Note: The display goes back to the main menu if you do not use it for 10 seconds.

8.3.2 Display menu

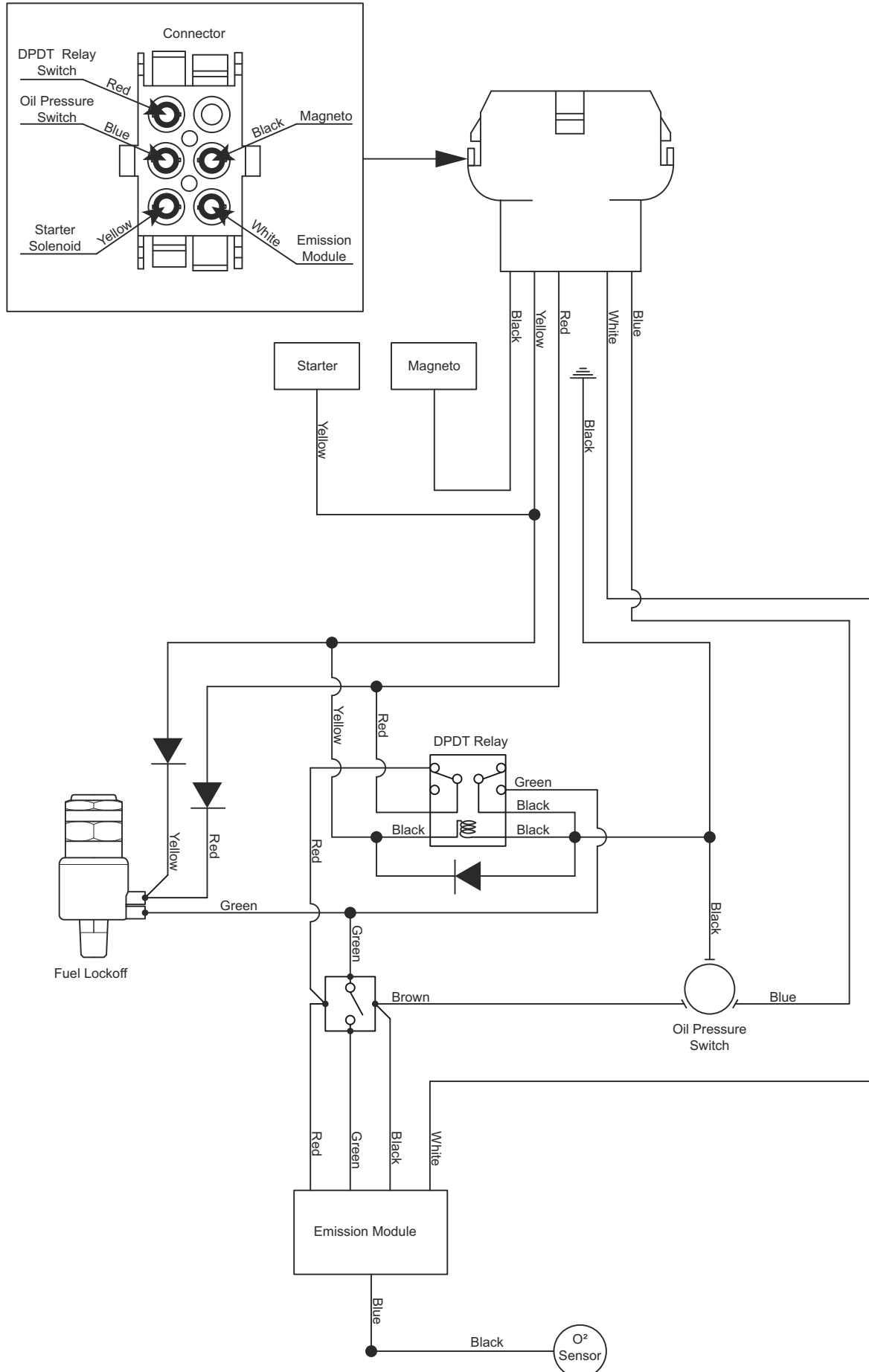
Menu selections	Information and basic set	Set options
Total operation time	Shows the time the product has been used.	N/A
Time to next servicing	Shows how many hours before a servicing is necessary.	Select "ON" to reset.
Max rpm	Shows the maximum rpm used during last operation.	Select "ON" to clear.
Ignition	Basic set is "1P1r".	N/A
Rpm limit	Set rpm range between 2400 - 3600 rpm.	Push the set button quickly to add 100 rpm each time. Push and hold the set button to add 1000 rpm each time.
Rpm warning	Basic set is "OFF". Set is "ON", the product gives a warning at selected rpm value.	Push the set button quickly to add 100 rpm each time. Push and hold the set button to add 1000 rpm each time.
Service warning	Basic set is 100 h. The product gives a warning when it has been used for this many hours.	Push the set button quickly to add 1 h each time. Push and hold the set button to add 10 h each time.
Voltage warning	Basic set is 11.0 V. The product gives a warning at this voltage value.	Push the set button quickly to add 0.1 V each time. Push and hold the set button to add 1 V each time.
Battery voltage	Shows the measured voltage of the battery in V.	N/A
Reset to factory settings	Will reset the product to factory settings.	N/A

8.3.3 Error messages on the display

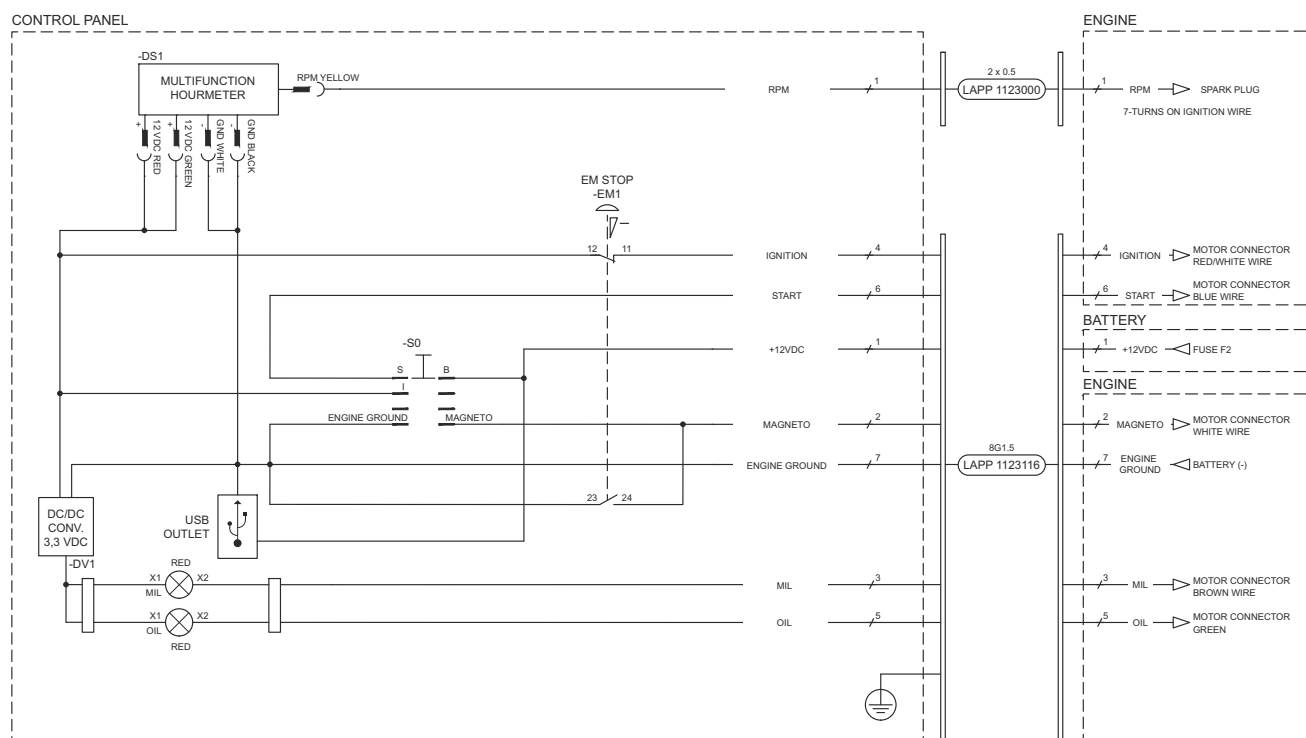
Problem	Cause	Solution
The display shows the letters LOU and a warning triangle.	The battery voltage is low.	Charge or replace the battery.
The display shows the letters SUC and a warning triangle.	The product is at the end of the servicing interval.	Refer to <i>Servicing schedule on page 10</i> for the recommended servicing.

9 Diagrams

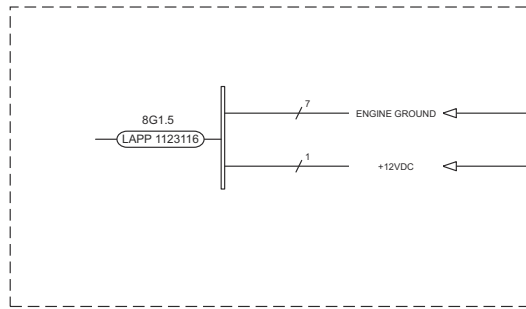
9.1 Engine



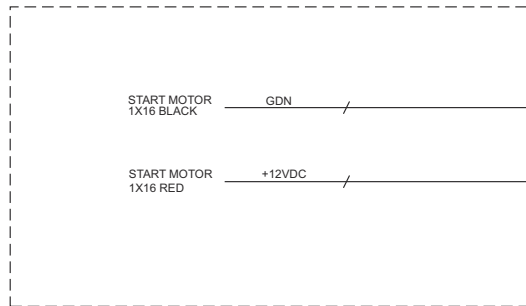
9.2 Control Panel



CONTROL PANEL



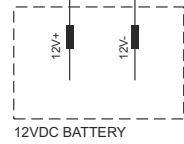
ENGINE



10A F2

CB1
MAIN BATTERY SWITCH

100A F1





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