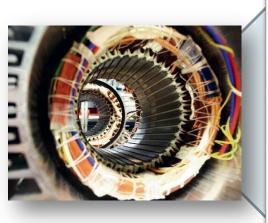
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SEW EURODRIVE SERVICE

Service and Maintenance – SEW Motor Pinion Replacement





Service and Maintenance – SEW Motor Pinion Replacement

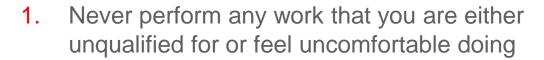
The following presentation will guide you through the safe and proper steps needed to replace a SEW motor pinion –

- Safety
- Required tooling
- Preparing to remove a motor pinion
- Removing a motor pinion
- Preparing to install a motor pinion
- Installing a new motor pinion



Service and Maintenance – SEW Motor Pinion Replacement

Safety First



- 2. Follow all local safety guidelines
- 3. Never perform work on equipment that is connected to a power source or energized
- 4. Always use the proper tooling
- Make use of all required PPE or Personal Protective Equipment





Service and Maintenance – SEW Motor Pinion Replacement

Required Tooling

Adjustable wrench	Dead blow hammer	ELECT SPING
Aqueous cleaner (Degreasing agent)	Various diameter metal pipe	1990
External circlip pliers	Non-shedding rags	
Hot plate	Loctite 603	LØCTITE 603 THE STATE OF THE CONTROL OF THE CONTRO
Gear pullers	Heat resistant gloves	
Flat hone stone	Non-shedding brush	

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Preparing to remove a motor pinion

Step 1 –

Remove the circlip from the rotor pinion. Take care not to overstretch the circlip.







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Preparing to remove a motor pinion

Step 2 -

Inspect the rotor pinion for any burrs or deformations that will inhibit the pinion gear removal process.



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Removing the motor pinion

Step 3 -

Attach the gear puller to the pinion gear.

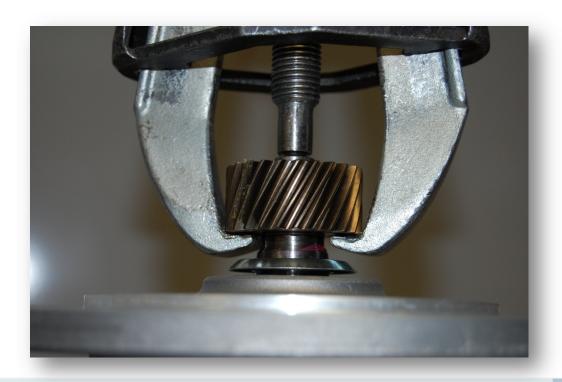


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Removing the motor pinion

Step 4 –

Verify that the claws of the gear puller are properly engaged.



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Removing the motor pinion

Step 5 -

Rotate the puller spindle with the crescent wrench until the gear pinion has been completely removed from the rotor.



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Preparing to install a motor pinion

Step 6 -

Inspect the pinion and rotor surface for any damage.

Never reuse damaged parts







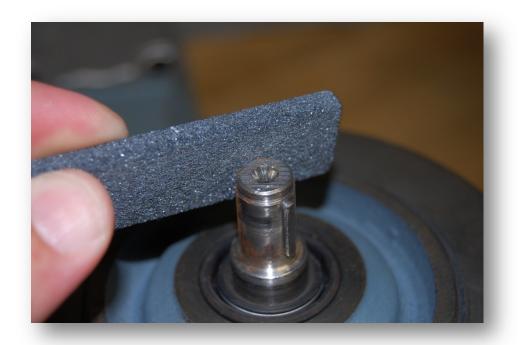
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Preparing to install a motor pinion

Step 7 -

Remove any burrs with the hone stone.



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Preparing to install a motor pinion

Step 8 -

Heat the pinion to approximately 250 °F. Do not exceed this temperature.



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Preparing to install a motor pinion

Step 9 -

Clean the rotor shaft, removing any debris, rust, or grease.



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Preparing to install a motor pinion

Step 10 -

Apply a thin coat of Loctite 603 to the rotor shaft and spread it with a brush.





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Installing a new motor pinion

Step 11 –

Wearing the proper heat resistant gloves, align the pinion keyway with the rotor key.



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Installing a new motor pinion

Step 12 -

Verify the alignment of the pinion keyway with the rotor key before proceeding further.



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SEW Motor Pinion Replacement

Installing a new motor pinion

Step 13 -

Gently seat the pinion against the rotor shoulder using a dead blow hammer and an appropriately dimensioned pipe.





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Installing a new motor pinion

Step 14 –

Install the circlip onto the rotor with the open end of the circlip 180 ° from the keyway.





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Installing a new motor pinion

Step 15 –

Wipe away any excess Loctite 603 that may have splattered during installation.



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Installing a new motor pinion

Step 16 -

The motor is now ready for installation into the gear reducer.





Service and Maintenance – SEW Motor Pinion Replacement

For more information on other service and maintenance topics, please visit our website:

www.seweurodrive.com/s_service/index.php5

