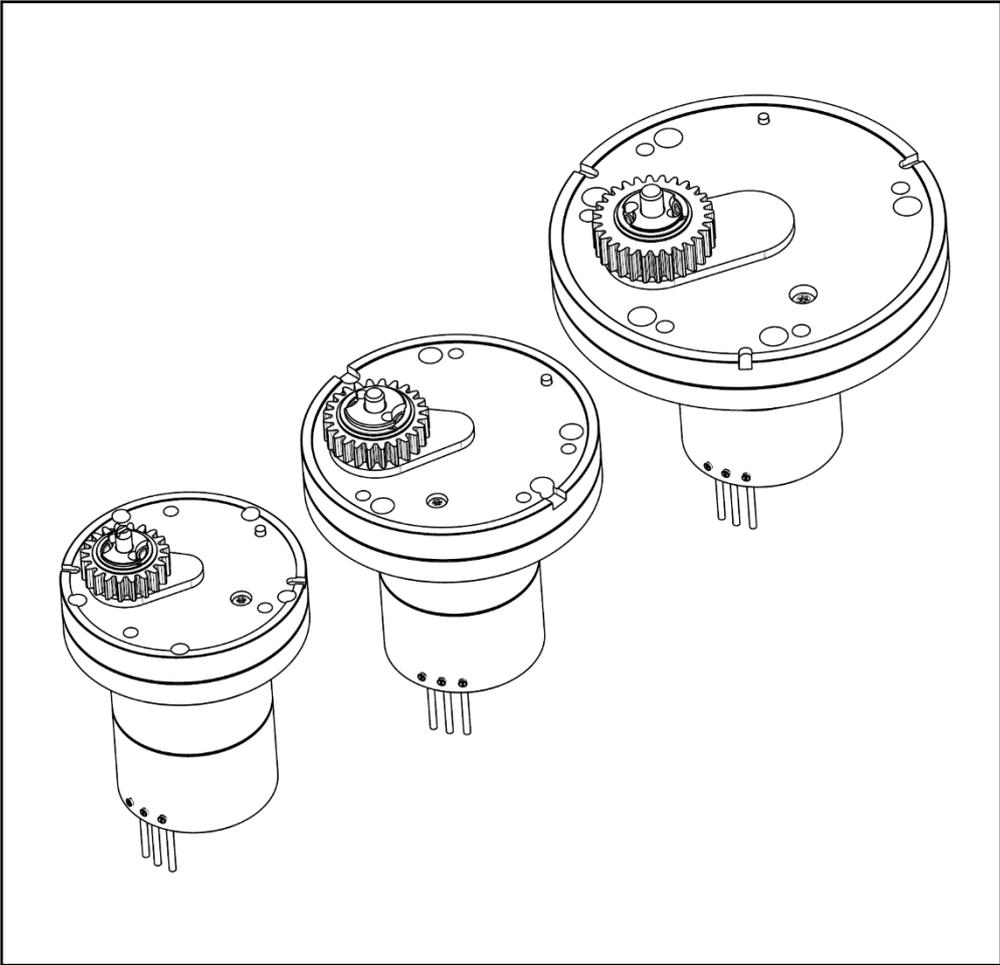


Winch Motor Pack

Extended maintenance manual



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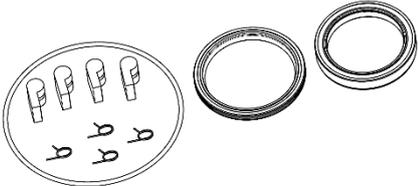
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1 Introduction

This manual covers the extended maintenance procedure for Seldén motor pack 473-430-02, 473-530-02 & 473-630-02 (E40-E66) used to power E-series winches. The extended maintenance is recommended to be performed every five years and should only be performed by a knowledgeable technician. The extended maintenance procedure also includes the yearly motor pack maintenance covered in 597-490 *Electric self-tailing winch*, section 6.2.

Required parts & consumables:

Description	Art. No		
Extended maintenance kit	E40	530-309-10R	
	E46/52	530-309-11R	
	E60/66		
Seldén lubrication grease	312-501		
Gearbox oil	312-900-01		
Medium strength thread locker	Not sold by Seldén		Loctite 2400 or equivalent

Optional parts & consumables:

Description	Art. No		
Pawl and washer kit (for motor pack)	E40	473-430-10R	
	E46/52	473-530-10R	
	E60/66	473-630-10R	
Pawl oil	312-709-01		

Please read the entire manual before any work is started and keep the manual available for future reference. The latest version is available at www.seldenmast.com.

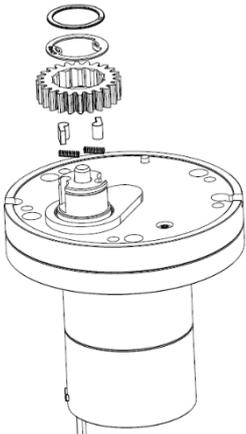
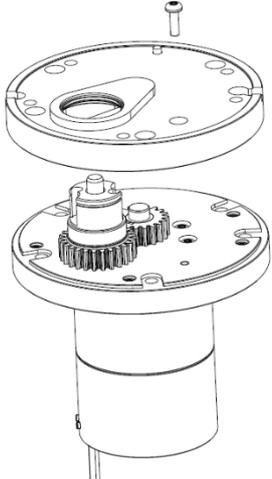
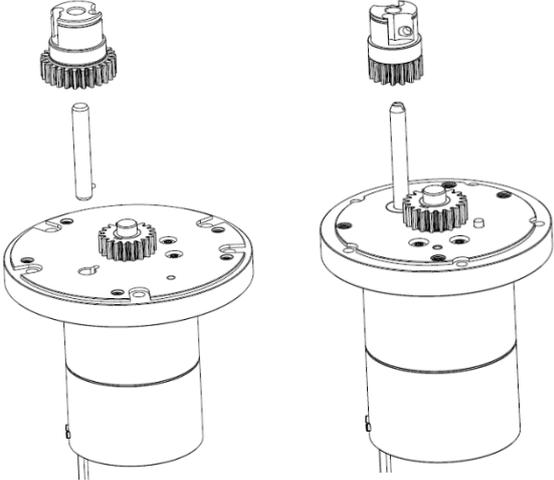
If there are any questions, please consult an authorized Seldén dealer. All dealers are listed at www.seldenmast.com and divided into categories describing their competence. For winch maintenance we recommend dealers in the category Advanced technical installations.

Related installation manuals and user guides:

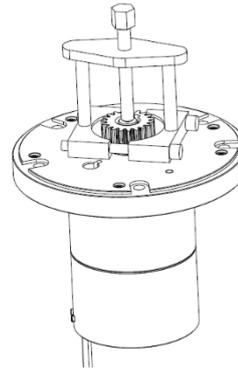
597-490 Electric self-tailing winch

2 Maintenance procedure

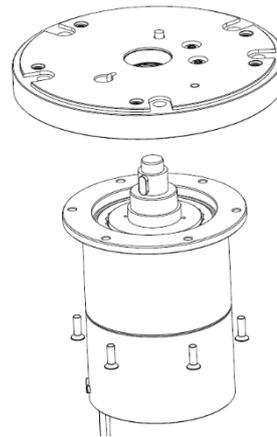
This section describes the extended maintenance procedure.

<p>1. Follow the steps in manual 597-490 <i>Electric self-tailing winch</i>, section 6.3 to remove the motor pack from the boat.</p>	
<p>2. Remove the locking ring, washer and gear, followed by pawls and springs.</p>	
<p>3. Remove the fastener holding the top plate. Remove the top plate carefully, a soft prying tool can be used to assist the removal.</p>	
<p>4. Remove ratchet hub, and shaft on E46-E66, do not remove the shaft on the E40. Clean and degrease all parts.</p>	

5.
Use a bearing puller to remove the center gear.

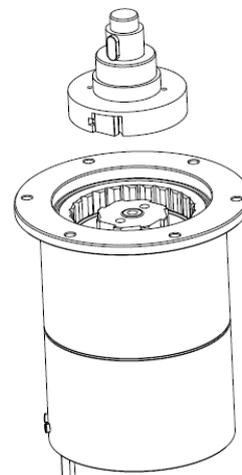


6.
Remove the fasteners holding the bottom plate to the gearbox.
Remove the bottom plate.

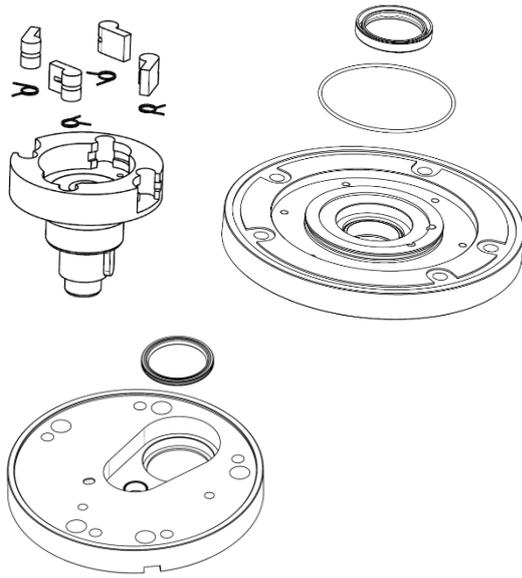


7.
Remove the output shaft from the gearbox.
Empty out the oil from the gearbox.

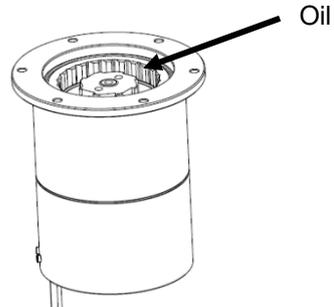
Clean and degrease all loose parts, do not clean in the gearbox!



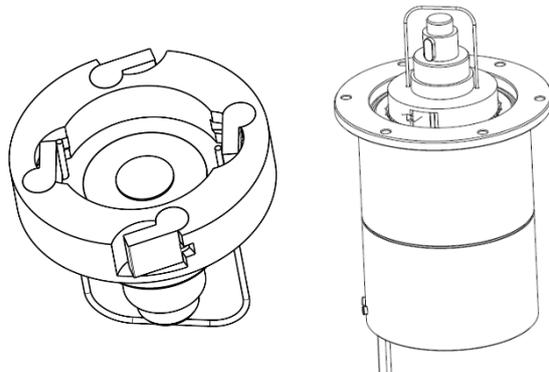
8.
Replace the pawls and springs in the output shaft and the seals and O-ring in the top plate and bottom plate.



9.
Fill the gearbox with 30ml of oil from the top.



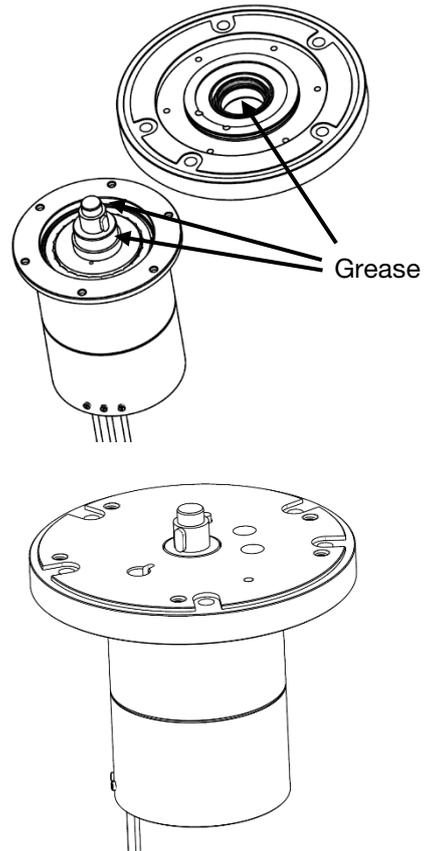
10.
Fit the output shaft in the gearbox.
This is done by using two small pins (diameter 1-1.5mm) to depress the inner pawls.



11.

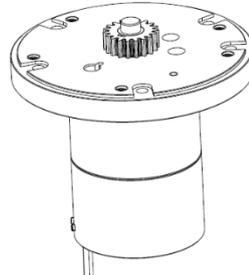
Apply grease to the seal and plain bearing in the bottom plate, and to the output shaft.

Refit the bottom plate to the gearbox housing, fit the fasteners using medium strength thread locker.



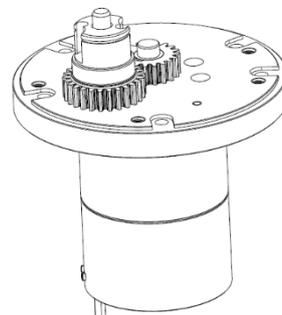
12.

Fit the key and press the center gear onto the output shaft.



13.

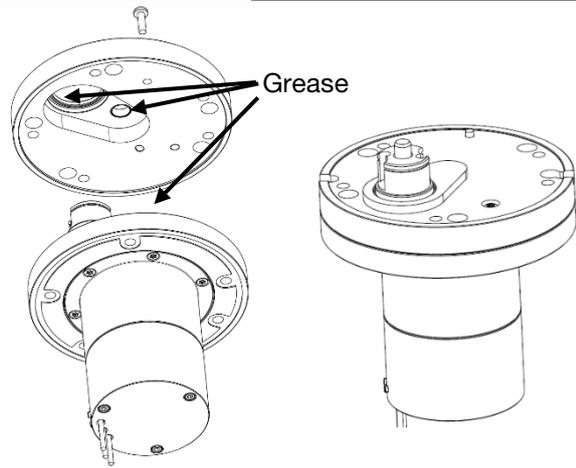
Install the shaft if removed. Grease the shaft and the hole in the pawl hub, install the pawl hub on the shaft.



14.

Generously grease the gears.

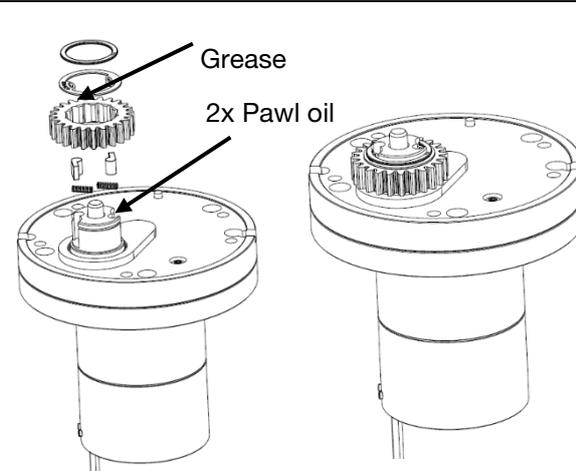
Grease the bushing and seal in the top plate. Fit the top plate and the fastener holding the top plate.



15.

Lightly grease the inside of the gear and apply pawl oil in the pawl pockets. Fit the pawls, springs, gear, washer and lock ring to the pawl holder. Replace any worn or damaged parts.

Grease the outside of the gear.



s16.

Remount the motor pack to the boat and mount the winch to the motor pack.

It is recommended to maintain the winch according to 597-490 *Electric self-tailing winch*, section 6.1, before mounting it.

