

Installation and Maintenance Manual

MRPW-04

Powered Performa™ Winch

40.2 STP E
40.2 STQP E



HARKEN®

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Introduction

This manual gives technical information on winch installation and maintenance, including disassembling and reassembling.

This information is DESTINED EXCLUSIVELY for specialised personnel or expert users.

Installation, disassembling and reassembling of the winch by personnel who are not experts may cause serious damage to users and those in the vicinity of the winch.

Harken® accepts no responsibility for defective installation or reassembly of its winches.

In case of doubt the Harken® Tech Service is at your disposal at techservice@harken.it

This Manual is available only in English. If you do not fully understand the English language, do not carry out the operations described in this Manual.

Technical characteristics

	Power ratio	Gear ratio
1st speed	13,50 : 1	2,13 : 1
2nd speed	39,90 : 1	6,28 : 1

The theoretical power ratio does not take friction into account.

Performance data

Winch 40.2 STP E (electric)

	horizontal motor			
	12 V (700 W)		24 V (900 W)	
	1st speed	2nd speed	1st speed	2nd speed
line speed (m/min)**	23,2	7,9	28,7	9,8
max load (Kg)	290	850	290	850

***Line speed is measured with no load*

		motor nominal power (W)		current absorption at winch MWL (A)	
		12 V	24 V	12 V	24 V
winch 40.2 STP E	horizontal	700	900	170	90

Weight

	ST EH
weight (Kg)	13,5

Versions:

EH = horizontal electric winch

Technical characteristics - Winch Quattro Performa

Dual Drum Winch: upper drum and lower drum.

LD refers to the lower drum

See page 6 for dimensions

	Power ratio	Power ratio LD	Gear ratio
1st speed	13,50 : 1	7,03 : 1	2,13 : 1
2nd speed	39,90 : 1	20,72 : 1	6,28 : 1

The theoretical power ratio does not take friction into account.

Performance data

Winch 40.2 STQP E (electric)

	horizontal motor			
	12 V (700 W)		24 V (900 W)	
	1st speed	2nd speed	1st speed	2nd speed
line speed (m/min)**	23,2	7,9	28,7	9,8
max load (Kg)	290	850	290	850
line speed LD**	44,3	15,1	54,9	18,7
max load LD (Kg)	160	350	160	350

**Line speed is measured with no load

		motor nominal power (W)		current absorption at winch MWL (A)	
		12 V	24 V	12 V	24 V
winch 40.2 STQP E	horizontal	700	900	170	90

Weight

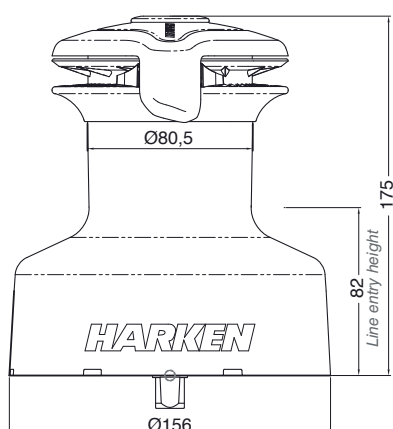
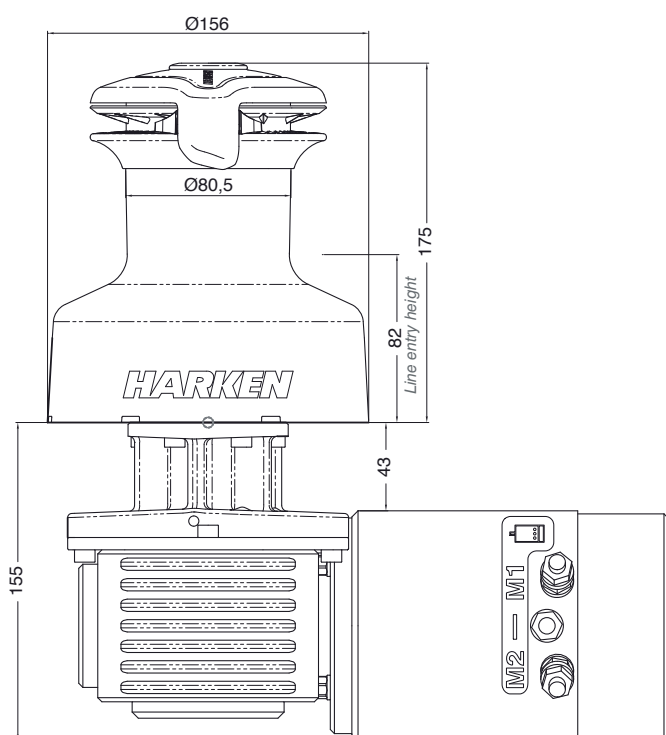
	ST EH
weight (Kg)	13,9

Versions:

EH = horizontal electric winch

Maximum working load**WARNING!**

The maximum working load (MWL) for the 40.2 ST E Performa™ Winch is 850 Kg (1874 lb). Subjecting the winch to loads above the maximum working load can cause the winch to fail or pull off the deck suddenly and unexpectedly during high loads causing severe injury or death.

OutlineWinch 40.2 STP EHorizontal electric motor (12 V / 24 V)

Maximum working load



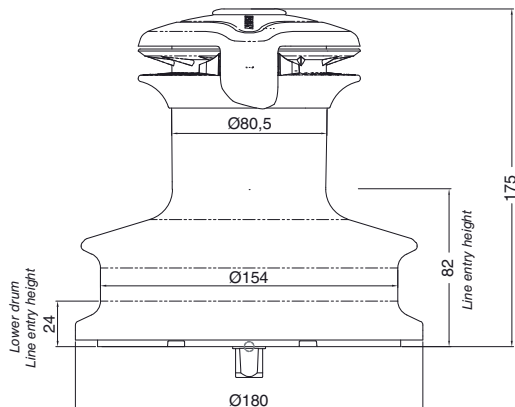
WARNING!

The maximum working load (MWL) for the 40.2 STQP E Performa™ Winch is 850 Kg (1874 lb). The maximum working load (MWL) for the 40.2 STQP E Performa™ Winch relative to the lower drum is 350 Kg (772 lb).

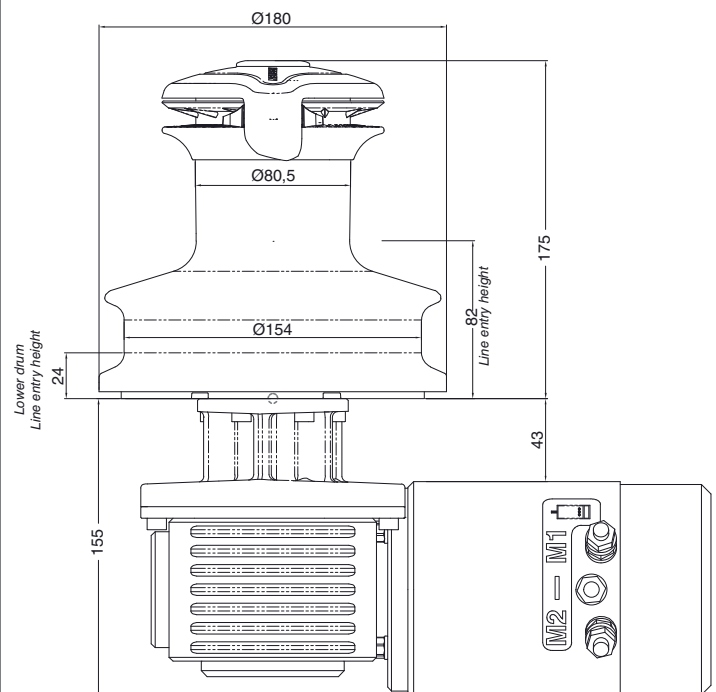
Subjecting the winch to loads above the maximum working load can cause the winch to fail or pull off the deck suddenly and unexpectedly during high loads causing severe injury or death.

Outline

Winch 40.2 STQP E



Horizontal electric motor (12 V / 24 V)



Installation

The winch must be installed on a flat area of the deck, reinforced if necessary to bear a load equal to at least twice the maximum working load of the winch.

It is the installer's responsibility to carry out all structural tests needed to ensure that the deck can bear the load.

Harken® does not supply the screws needed to install the winch since these may vary depending on the deck on which it is to be installed.

It is the installer's responsibility to choose the correct screws taking account of the loads they will have to bear.

Harken® assumes no responsibility for incorrect installation of its winches or for an incorrect choice of mounting screws.

DANGER!

Incorrect installation of the winch may cause severe injury or death. Consult the yard that built the boat in the case of doubt over the correct positioning of the winch.



WARNING!

Failure to use the correct number and type of mounting fasteners or failure to ensure the correct deck strength can result in the winch pulling off the deck suddenly and unexpectedly during high loads causing severe injury or death.



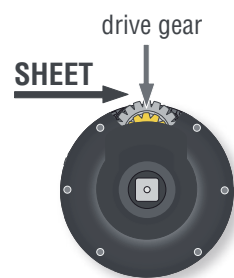
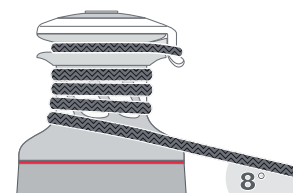
WARNING!

Verify the entry angle of the sheet. This must be 8° with tolerance of $\pm 2^\circ$, to avoid sheet overrides and damaging the winch or making the winch inoperable leading to loss of control of the boat which can lead to severe injury or death.



WARNING!

Mount the winch on the deck so that the drive gear is positioned where the sheet enters the winch drum. Incorrect position of drive gear can weaken winch leading to failure which can cause an accident leading to severe injury or death.



After correctly positioning the final pinion with respect to the load, check that the motor, gearing, electrical wiring and/or hydraulic pipes can be housed below decks. To help find the optimal compromise, remember that, to make the installation of the motor easier, it can be coupled to the winch in different positions.

Once you have decided the correct mounting position for the winch on the deck and checked the space available below deck, proceed with the installation.


Procedure

To install the winch you must remove the drum and use Socket Head (SH) bolts.

Tools needed

 One medium flat-bladed screwdriver

To identify the various parts, refer to the exploded view at the end of this Manual.

 Torque to apply when assembling



1. Pull out the disconnect rod n°28



2. Unscrew the central screw ($\approx 2\text{Nm}/18\text{ in-lb}$)



3. Slide off the assy socket n°26 and the cover n°27. Pay attention to the o-ring in the socket.



4. Unscrew the three screws n°25 ($\approx 4\text{Nm}/35\text{ in-lb}$)



5. Remove the stripper arm n°24 by rotating and lifting it.



6. Lift off the drum n°21

Install the winch on the deck in the position you have chosen, keeping in mind the limits described on page 5. (See paragraph on installation)

Winch installation procedure

Carry out the **Procedure**, then install the winch on the deck in the chosen position.

NOTICE

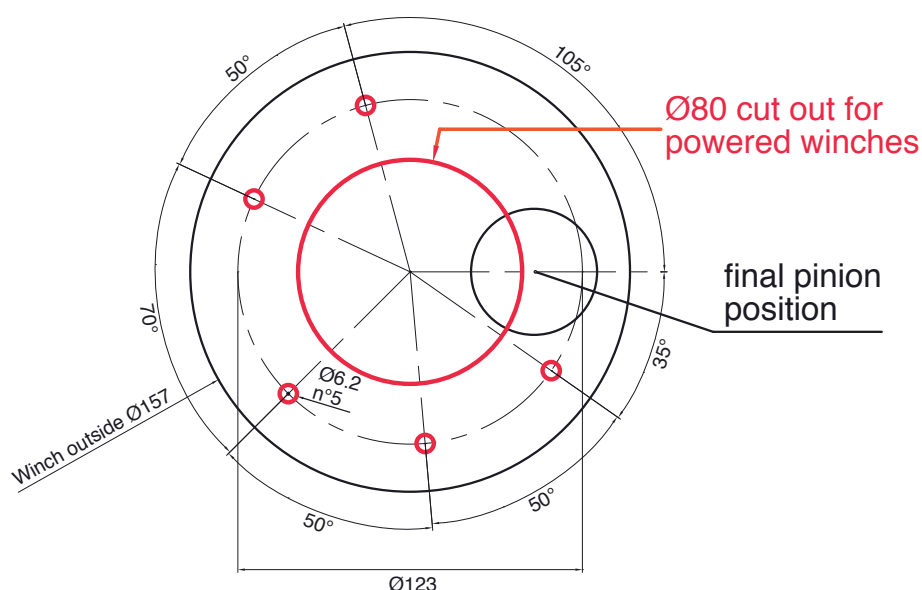
Before drilling the deck, check the space available below deck for the flange and the motor

- A.** Position the base of the winch on the deck and mark the position of the holes or use the drilling cut-out template at the point where you have decided to place the winch.
- B.** Remove the winch and drill the five 6.2 mm diameter holes.

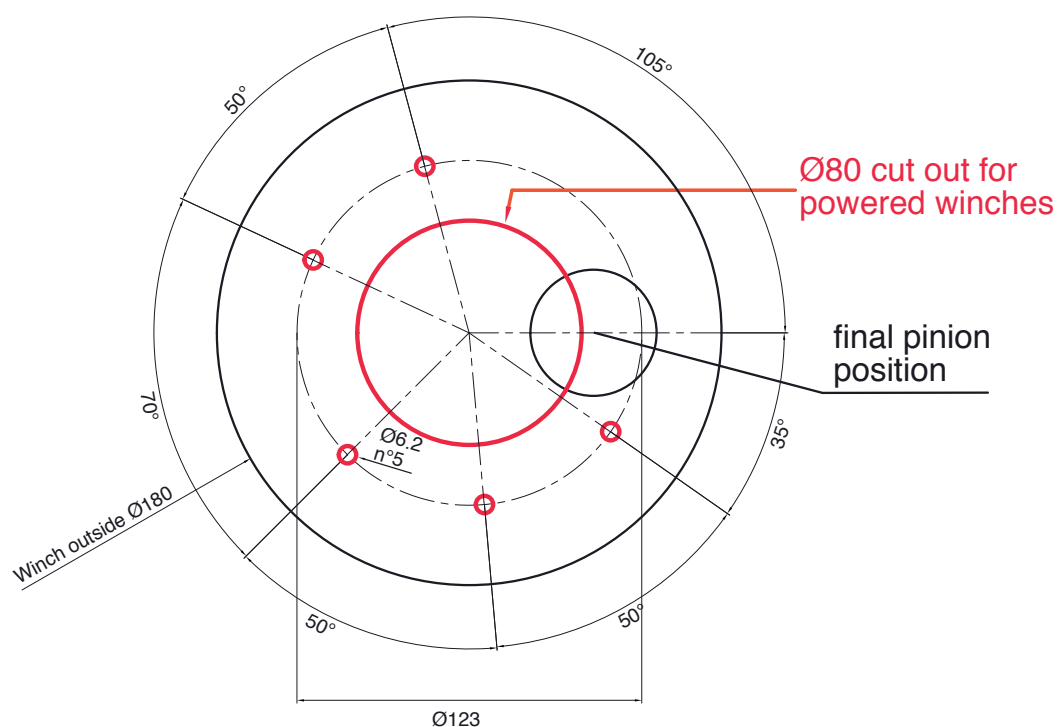
Below is a reduced scale diagram.

The drilling cut out template is available on the Harken® website, www.harken.com

Winch STP



Winch STQP



- C. Bolt the base of the winch to the deck using five M6 Socket Head (SH) bolts (not supplied by Harken®), correctly chosen for the thickness and type of the boat deck. Consult the yard that built the boat in case of doubt.

**WARNING!**

To install the winch on the deck, use only bolts in A4 stainless steel (DIN 267 part11). Bolts made of other materials may not have sufficient strength or may corrode which can result in winch pulling off deck suddenly and unexpectedly during high loads causing severe injury or death.

NOTICE

To mount winches on the deck, do not use countersunk bolts.

- D. Fill the mounting holes with a suitable marine sealant.
- E. Remove the excess adhesive/sealant from the holes and base drainage channels
- F. Reassemble the winch following the steps of the **Procedure** in the reverse order, and apply the products indicated in the section on maintenance.

NOTICE

Before closing the winch, make sure the holes and drainage channels in the base of the winch are not obstructed.

Positioning the self-tailing arm

Position the self-tailing arm so that the line leaving the winch is led into the cockpit.

Motor installation procedure



WARNING!

Make sure that the power is switched off before installing or carrying out maintenance on the winch.

Once you have installed the winch on the deck, proceed with motor installation. The motor can be coupled to the winch in different positions. Check the space available below deck and choose the suitable position.

Tools needed



A number five hex key

A number six hex key (only for vertical electric motor)

A number ten hex key (only for hydraulic motor)



Two number thirteen wrenches



1. Position the flange (see Page 10)



2. Tighten six M6 precote coated screws
(8 Nm/ 71 in-lb)



3. Position the reduction gear and motor



4. Tighten the two screws (8 Nm/ 71 in-lb).
Be sure to align the flange.

NOTICE

Before positioning the flange, check to make sure that seal is seated correctly.



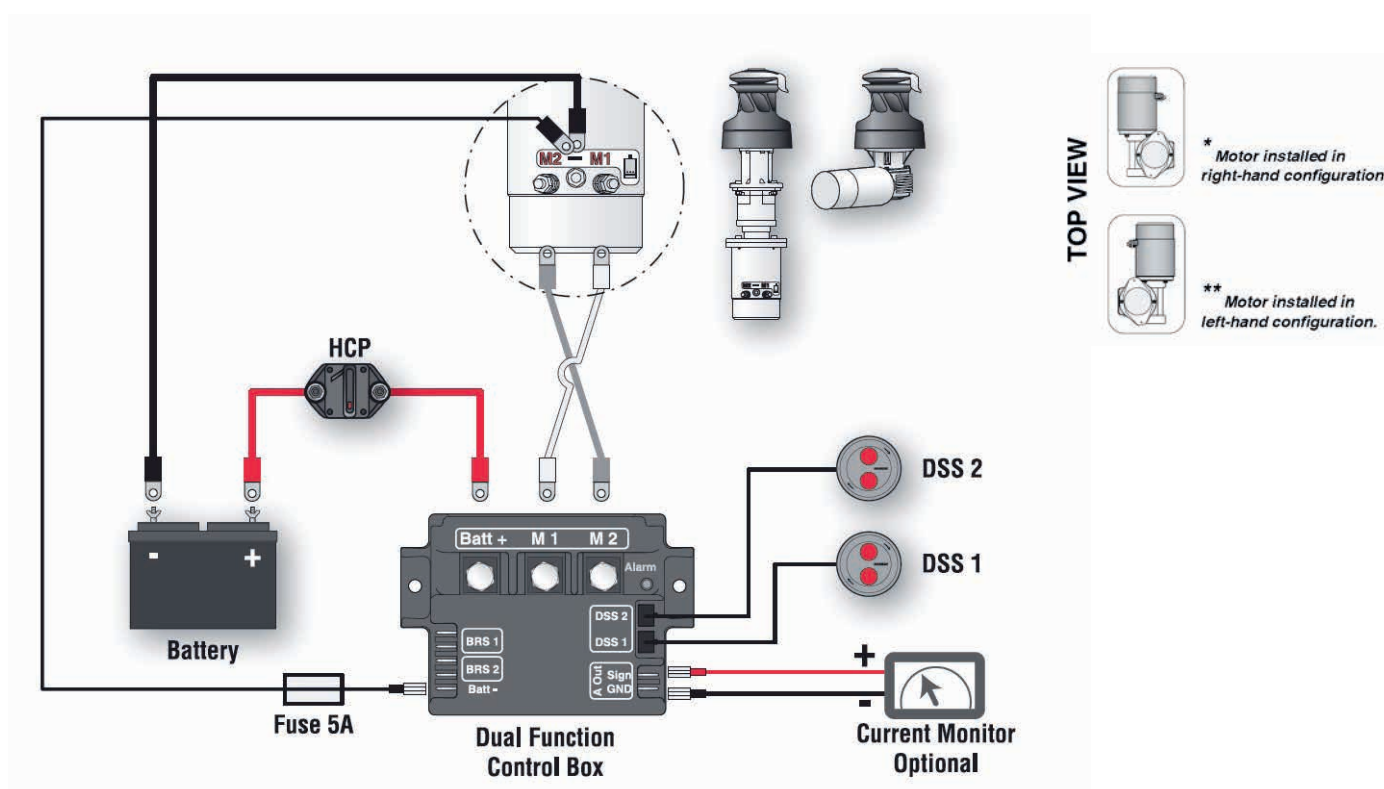
After winch is assembled and before sailing, test the powered winch functioning: insert the lock-in winch handle in the handle socket and check that the disconnect rod must disconnect gearbox.

Electric wiring diagrams

To guarantee greater efficiency in terms of safety and long life, for every winch model is mandatory to install the Dual Function Control Box.

For more information, refer to the Dual Function Control Box manual.

Refer to the following diagrams for the electric wiring:



WARNING!

Read the Dual Function Control Box manual carefully before installing and using the device.

NOTICE

For other installations, refer to the Dual Function Control Box manual.

Fasten the Dual Function Control Box containing solenoids to bulkhead or wall: refer to the Dual Function Control Box manual. Install remote circuit breaker between power supply and Dual Function Control Box. Locate push-buttons on deck in a convenient spot for easy winch operation: refer to the Digital System Switch manual.

Refer to the following chart for wire size:

Total distance between winch and battery

Winch size	Current voltage	Under 16.4 ft AWG	Under 5 m mm ²	16.4 - 32.8 ft AWG	5 m - 10 m mm ²	32.8 - 49.2 ft AWG	10 m - 15 m mm ²	49.2 - 65.6 ft AGW	15 m - 20 m mm ²
40.2	12 V	2	32	0	50	00	70	000	95
40.2	24 V	5	16	3	25	2	35	0	50

NOTICE

To connect motor, attach cable terminals to clamps between nut and lock nut. Hold nut in contact with motor using a spanner and tighten other nut with second spanner. Take special care not to turn the central spindles. Be careful not to turn central spindles. These instructions apply when assembling and disassembling. We recommend using a torque wrench so as to obtain a torque equal to and no greater than 10 Nm (88 in-lb).



NOTICE

Note that correct electrical contact sequence is:
Nut – Cable Terminal – Self-Locking Washer – Lock Nut



Maintenance

Washing

Winches must be washed frequently with fresh water, and in any case after each use.

Do not allow teak cleaning products or other cleaners containing caustic solutions to come into contact with winches and especially anodised, chrome plated or plastic parts.

Do not use solvents, polishes or abrasive pastes on the logos, on the stickers on the winches or on any anodized, chrome plated and plastic surfaces.

Make sure that the holes and drainage channels in the base of the winch are not obstructed so that water does not collect.

Maintenance table

Winches must be visually inspected at the beginning and end of every season of sailing or racing. In addition they must be completely overhauled, cleaned and lubricated at least every 12 months. After an inspection, replace worn or damaged components. Do not replace or modify any part of the winch with a part that is not original.



WARNING!

Periodic maintenance must be carried out regularly. Lack of adequate maintenance shortens the life of the winch, can cause serious injury and also invalidate the winch warranty. Installation and maintenance of winches must be carried out exclusively by specialized personnel.

In the case of doubt contact Harken® Tech Service at techservice@harken.it



WARNING!

Make sure that the power is switched off before installing or carrying out maintenance on the winch.

Winch disassembly procedure

Tools needed



One medium flat-bladed screwdriver



A number five hex key



Brush

Rags

 Torque to be applied in assembly phase

To identify the various parts refer to the exploded view at the end of this Manual.

Carry out procedure as shown in the paragraph on winch installation and then do the following:



7. Completely unscrew the three screws n°25



8. Remove the self-tailing arm support n°20



9. Slide out the central shaft n°18



10. Unscrew the 6 hex screws n°15
(8Nm/71 in-lb)



11. Remove the drum support n°14
Important: washer n°11 may remain inside the drum support!



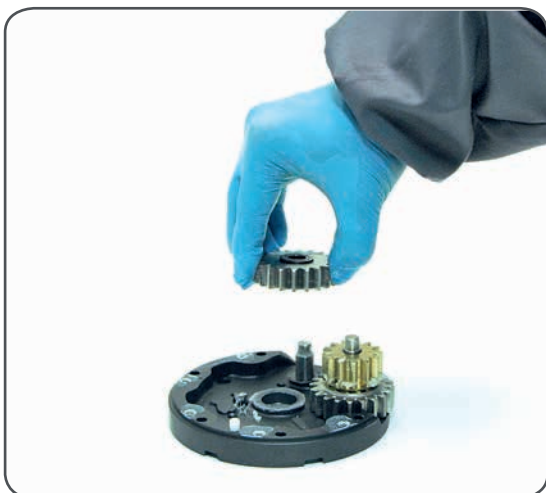
12. Remove the washer n°11



13. Remove the gearing n°6 and remove the pawls n°4. To facilitate the operation press the spring against the pawl with a blade.



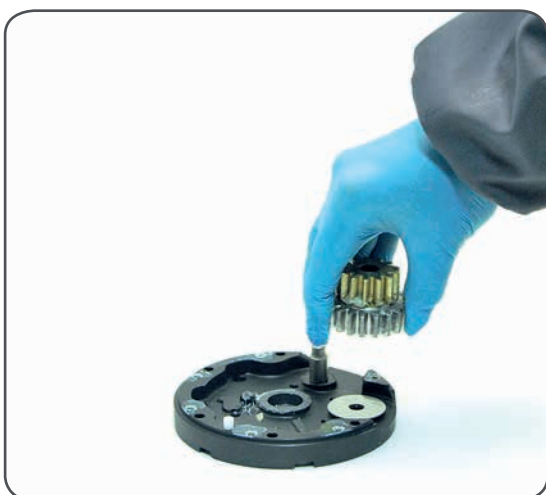
14. Slide off gear n°2



15. Slide off gear n°13



16. Remove shaft n°7



17. Slide off gear n°9



18. Remove the pawls n°4. To facilitate the operation press the spring against the pawl with a blade.

If it is necessary to replace any **jaws** of the winch, proceed as follows:



I. Unscrew the 4 screws n°23
($\approx 4\text{Nm}/35\text{ in-lb}$)



II. Remove the jaws n°22

Inspect balls inside the drum and carefully check the correct position; if it is necessary to put back any balls, push balls in the race (as shown below):



Once the winch is completely disassembled, clean the parts: use a basin of diesel oil to soak metal components and rinse plastic parts in fresh water. Once you have done this, dry the parts with cloths that do not leave residue.

Inspect gears, bearings, pins and pawls for any signs of wear or corrosion.

Carefully check the teeth of gears and ring gears to make sure there are no traces of wear.

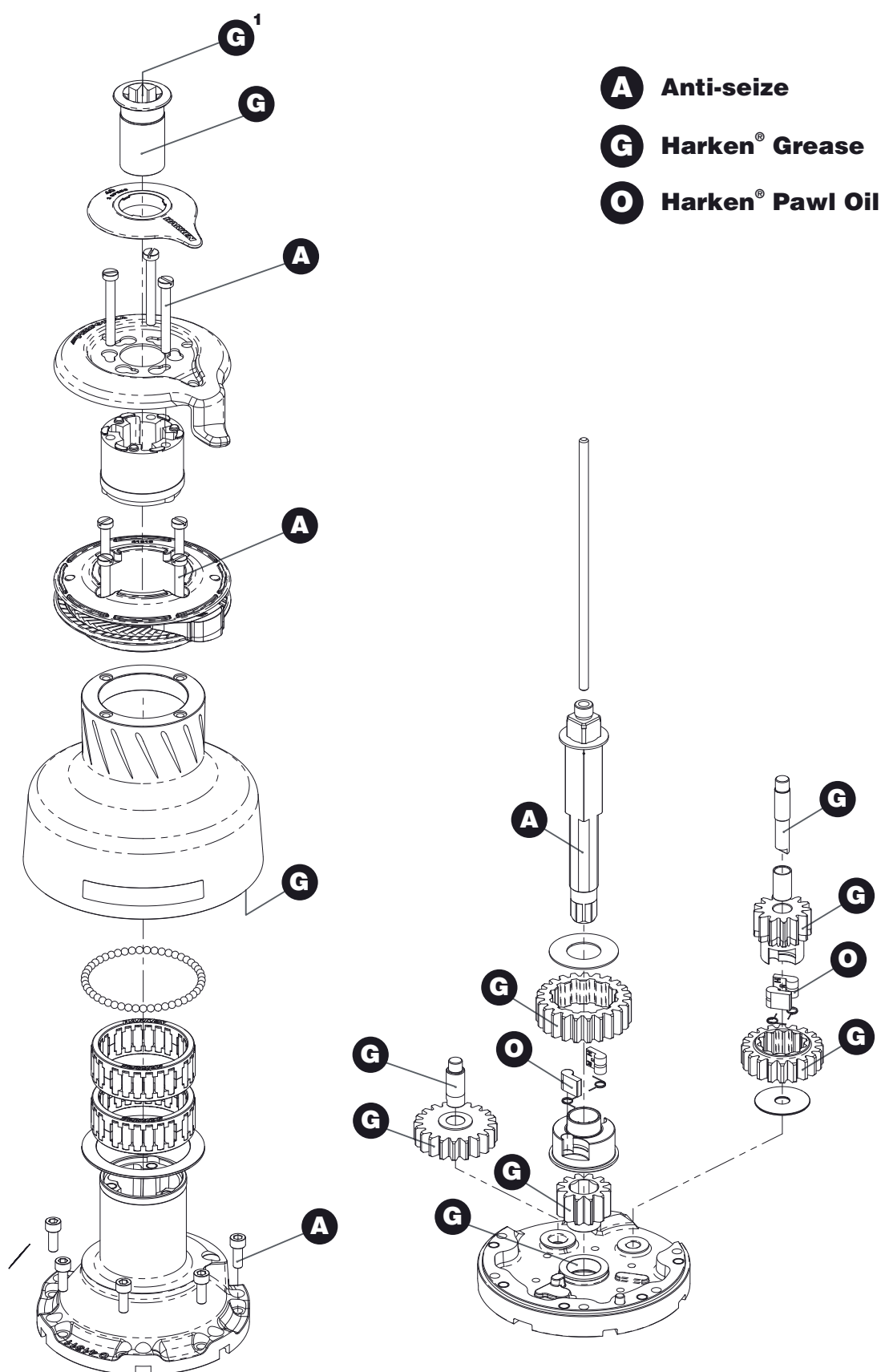
Check the roller bearings and check there are no breaks in the bearing cages.
Replace worn or damaged components.

Carry out maintenance on components using the products listed below.

For more information on which products to use where, refer to the exploded diagram below.

Use a brush to lightly lubricate all gears, gear pins, teeth and all moving parts with grease.
Lightly lubricate the pawls and springs with oil. Do not use grease on the pawls!

Winch exploded view with maintenance products



¹Apply Harken® grease on assy socket screw

Winch assembly

Make sure that the holes and drainage channels in the base of the winch are not obstructed. Assemble the winch in the reverse order of the sequence in the section on disassembly.

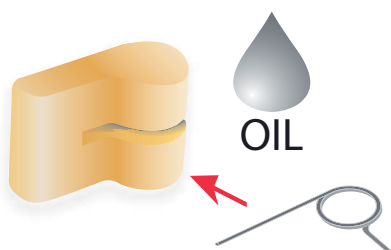
To tighten bolts, use the torque indicated in the disassembly procedure.



If the jaws have been disassembled, insert peeler between the two jaws, taking care that the letters TOP on the peeler are facing upwards.

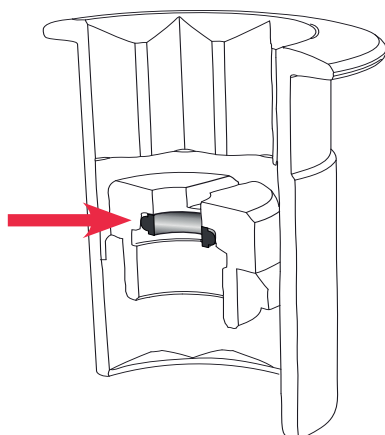


When positioning the stripper arm, align the peeler with it.



To assemble the pawls:

correctly position the spring in its housing as shown at left. Hold the spring closed and slide the pawl into its housing. Once in position, check that the pawls can be easily opened and closed with a finger.



NOTICE

Before screw the central screw, check the correct position of the o-ring in the assy socket and apply Harken® grease.

In case of doubt concerning the assembly procedure contact Harken® Tech Service: techservice@harken.it

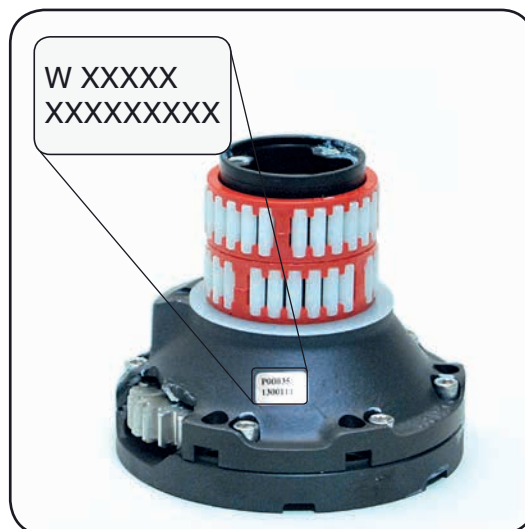
Harken® limited worldwide warranty

Refer to the Harken® Limited Worldwide Warranty in the Harken® Catalogue and on the website www.harken.com

Ordering spare parts

Spare parts can be requested from Harken® as described in the Harken® Limited Worldwide Warranty, indicating the part number in the Parts List and including the serial number of the winch for which the parts are required.

The serial number of the winch is printed on a plate on the drum support of the winch.



Manufacturer

Harken® Italy S.p.A.

Via Marco Biagi, 14
22070 Limido Comasco (CO) Italy
Tel: (+39) 031.3523511
Fax: (+39) 031.3520031
Email: info@harken.it
Web: www.harken.com

- **Tech Service**
Email: techservice@harken.it
- **Customer Service**
Tel: (+39) 031.3523511
Email: info@harken.it

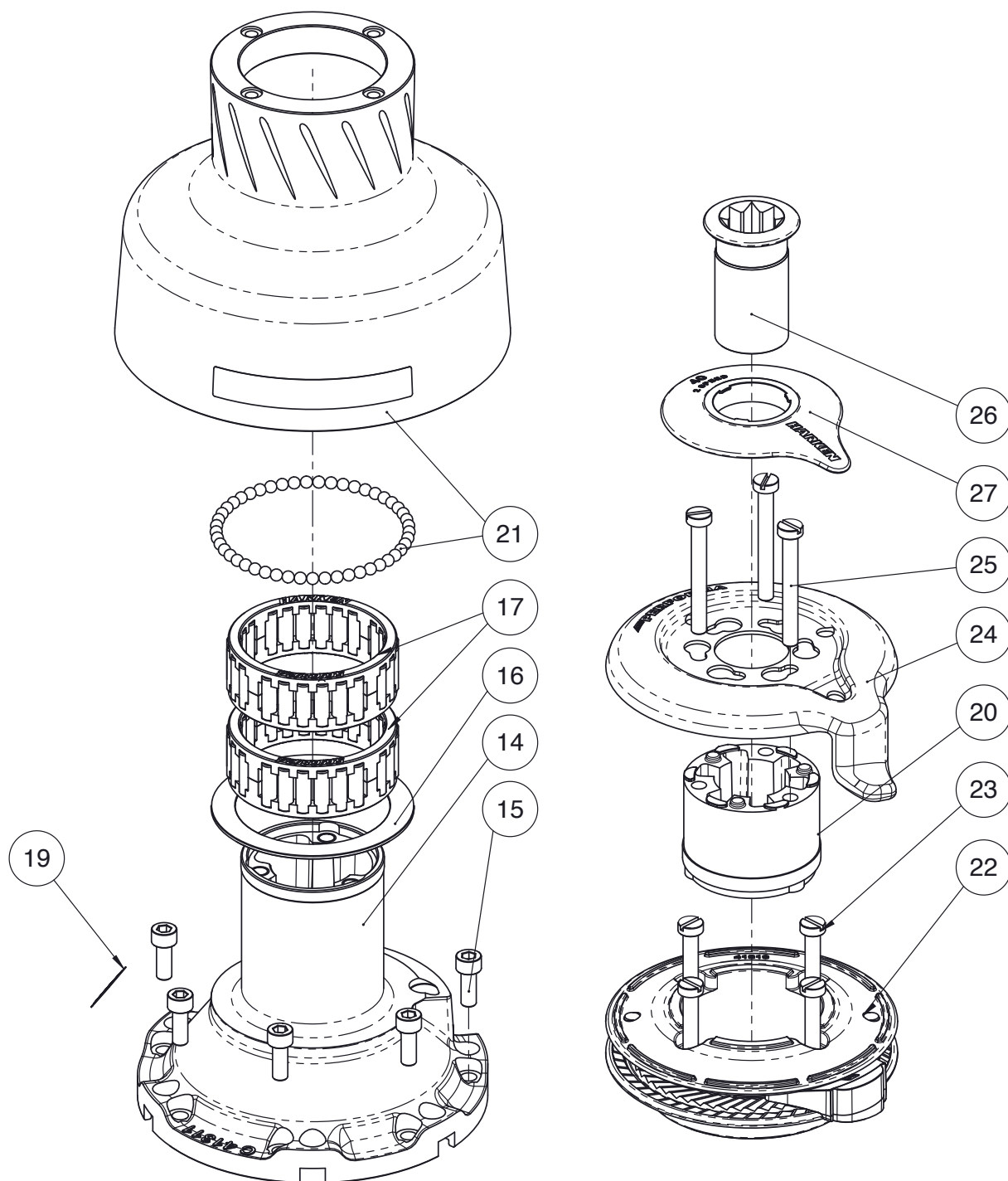
Headquarters

Harken®, Inc.

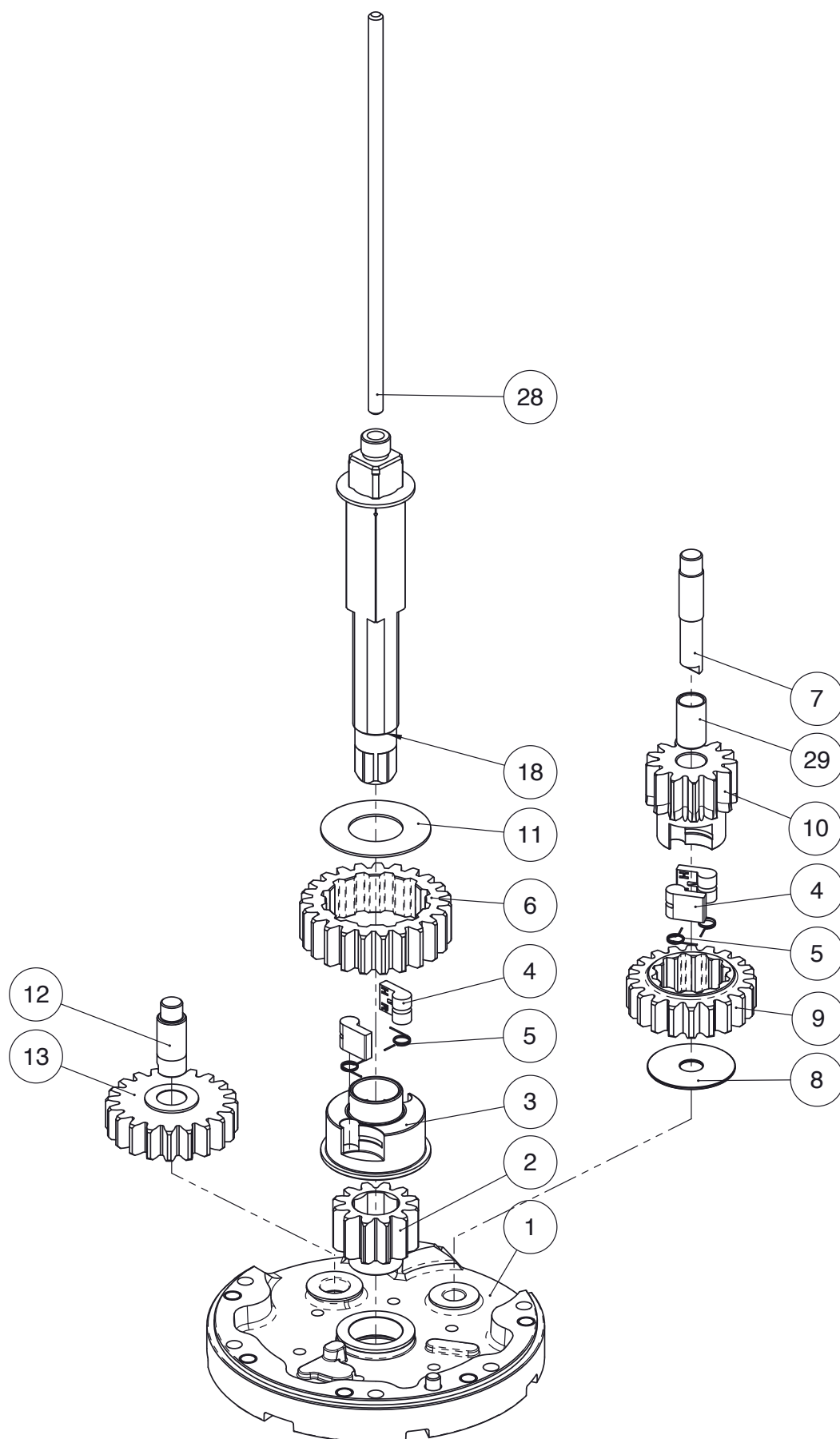
1251 East Wisconsin Avenue
Pewaukee, Wisconsin 53072-3755 USA
Tel: (262) 691.3320
Fax: (262) 691.3008
Email: harken@harken.com
Web: www.harken.com

- **Tech Service**
Email: technicalservice@harken.com
- **Customer Service**
Tel: (262) 691-3320
Email: customerservice@harken.com

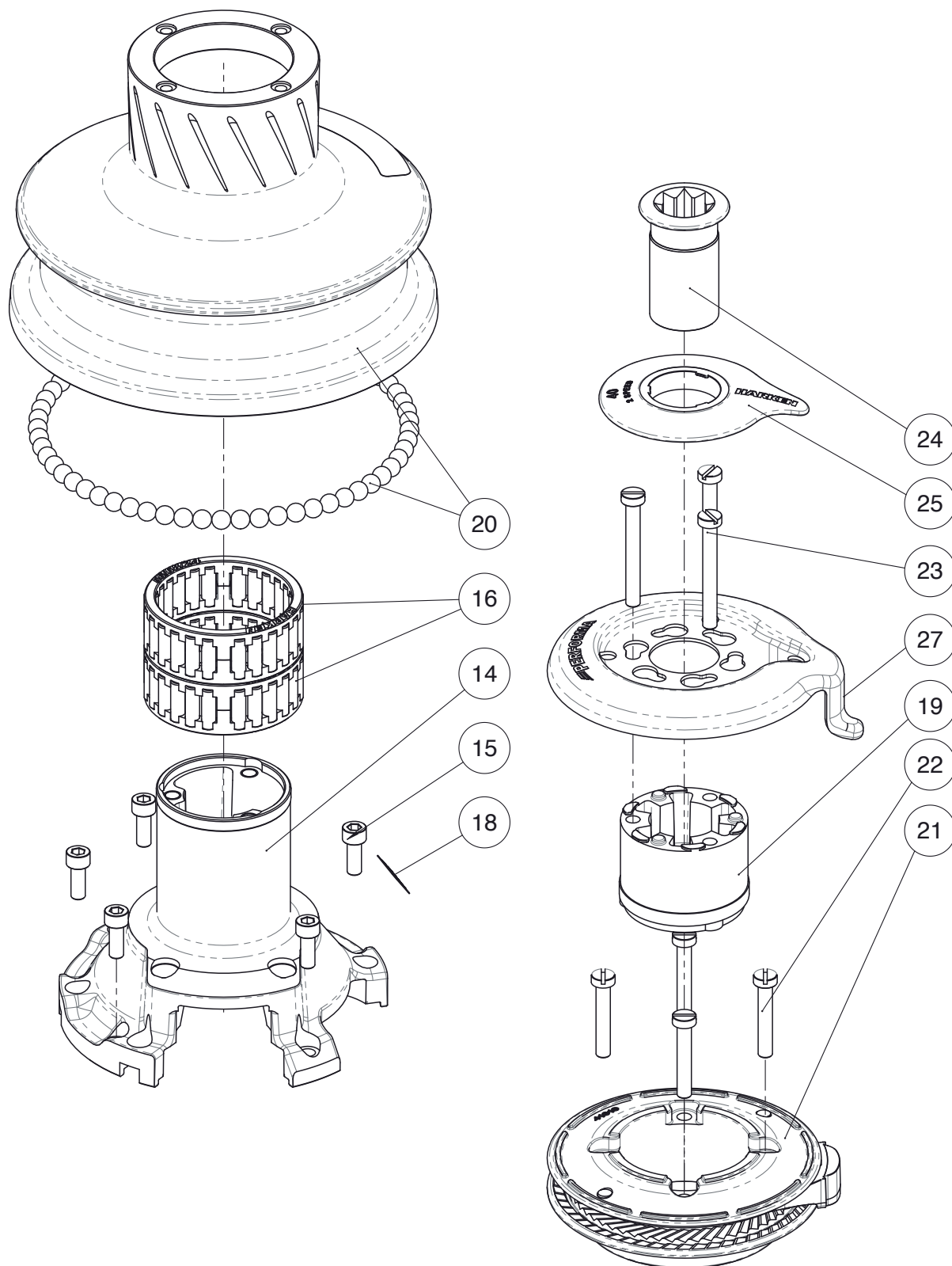
Performa Winch 40.2 STP E



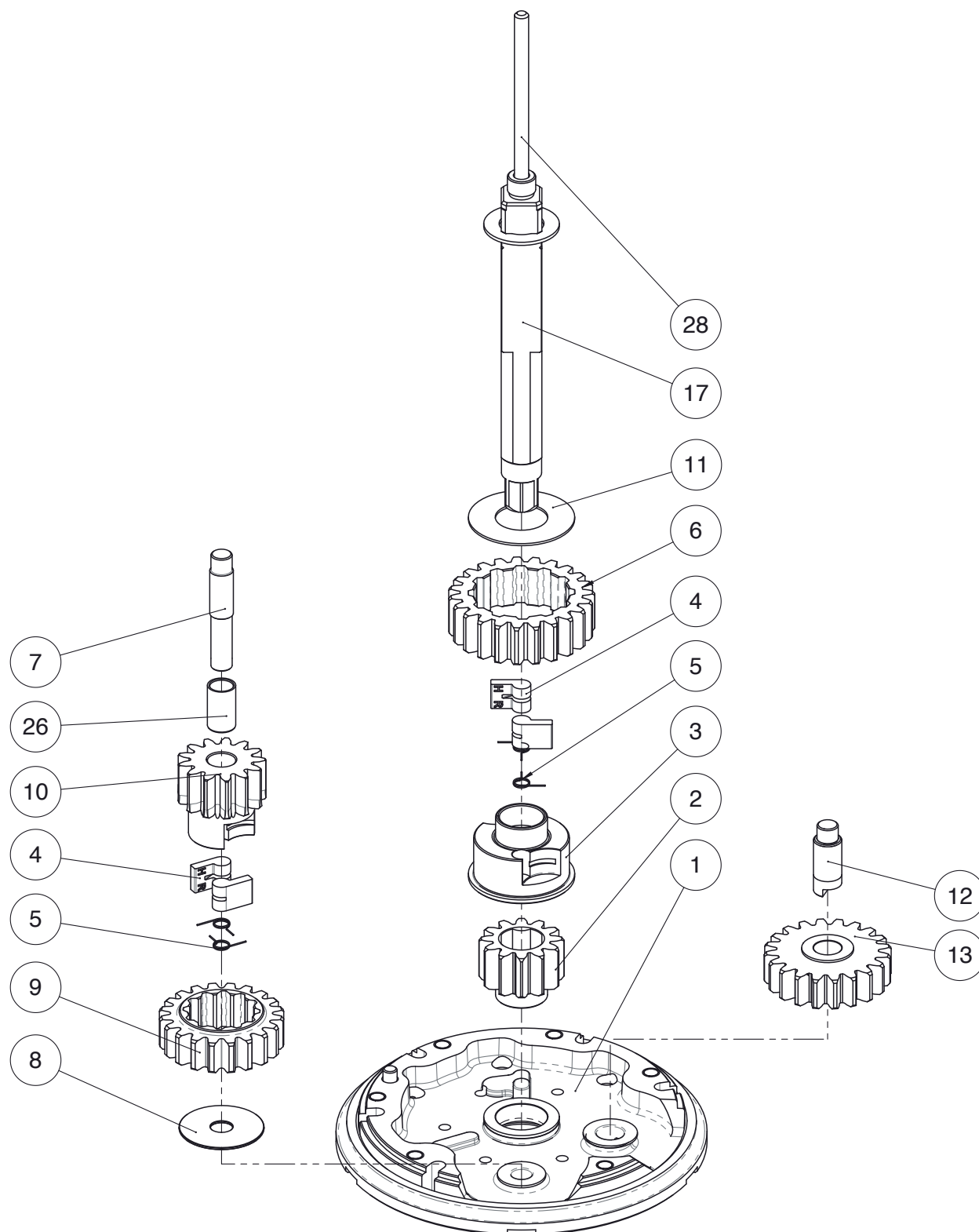
Performa Winch 40.2 STP E



Perma Winch 40.2 STQP E



Perma Winch 40.2 STQP E



Performa Winch 40.2 STP E

Pos	Q.ty	Code	Description	Pos	Q.ty	Code	Description
1	1	A96633800	PERFORMA Assy Base Winch 40 EL/HY <i>PERFORMA Base W40</i> <i>Heli-coil M6x9</i>	17	2	A74136000	Bearing Ø56xØ68x24
	1	S413350080	<i>Roller Ø6x19</i>	18	1	A96777100	Assy Central Shaft W40 EL/HY <i>Central Shaft Pred. W40</i>
	1	S4130900A7	<i>Bushing Ø22xØ25x8.5</i>		1	S413880002	<i>Washer Ø17.2xØ32x1.5</i>
	1	S413960085	<i>Bushing Ø9xØ11x12</i>	19			Winch Serial Number Sticker
	1	S413330085	<i>Bushing Ø12xØ14x11</i>	20	1	S4129400A0	Stripper arm support
2	1	S413020004	Gear Z12	21	1	A96572600	Performa Drum W40 <i>Performa Drum W40</i> <i>Winch Product Sticker**</i>
3	1	S413030004	Pawls Carrier Ø8xN2		1	S6572700A3	<i>Bearing ring W40</i>
4	4	S000090004	Pawl Ø8*		49	M0619580	<i>Ball 3/16"</i>
5	4	S000380001	Pawl Spring Ø8*	22	1	A94131800	Assy Winch 40 Jaws <i>Lower Jaw W35/40</i> <i>Upper Jaw W35/40</i>
6	1	S412830041	Gear Z23		1	S413610080	<i>Peeler W20 - 40</i>
7	1	S657380004	Performa Pin Ø9x10 W40		4	S385970001	<i>SPRING</i>
8	1	S279090002	Washer Ø36xØ9,5x1	23	4	M0601803	Screw UNI EN ISO 1207:1996 - M6x35 - A4
9	1	S412970004	Gear Z20	24	1	S657360019	Performa Black Stripper Arm W40
10	1	S657370041	Performa Pinion Z13 W40	25	3	M6007103	Screw M6x50 UNI6107
11	1	S413120002	Washer Ø22.5xØ45x1	26	1	A94149300	Assy Socket W35-80 EL/HY <i>Socket Handle W20/80</i>
12	1	S413070004	Pin Ø9xØ12x32.5		1	S414940085	<i>Washer Ø25xØ15x4</i>
13	1	A94130500	Assy Gear Z20 <i>Gear Z20</i>		1	S414930003	<i>Nut Screw for Disconnect Rod</i>
	2	S414900080	<i>Bushing Ø12xØ14x8</i>		1	M0679797	<i>O ring RC 2025 series</i>
14	1	A94141500	Assy Housing Winch 40 <i>Support W40</i> <i>Heli-coil M6x9</i>	27	1	S4141900A5	Cover 2 speed W40
	2	S414890080	<i>Bushing Ø9xØ11x7</i>	28	1	S415060002	Disconnect Rod W40
	1	S4130900A7	<i>Bushing Ø22xØ25x8.5</i>	29	1	M603370094	Bushing XSM-1012-20
15	6	M0635103	Socket head screw M6x16 UNI 5931				
16	1	S657280052	Performa Shim W40				

*Available with service kit; see website www.harken.com

**Winch product sticker



Performa Winch 40.2 STQP E

Pos	Q.ty	Code	Description	Pos	Q.ty	Code	Description
1	1	A97018900	Assembly base Winch 40QP EL/HY with thrust bearing <i>Ring base W40 STQ</i> <i>Base W40</i> <i>Heli-coil M6x9</i>	17	1	A96777100	Assembly Central Shaft W40 EL/HY <i>Central Shaft Pred. W40</i> <i>Washer Ø17.2xØ32x1.5</i>
	1	S413350080	<i>Roller Ø6x19</i>	18			Winch Serial Number Sticker
	1	S4130900A7	<i>Bushing Ø22xØ25x8.5</i>	19	1	S4129400A0	Stripper arm support
	1	S413960085	<i>Bushing Ø9xØ11x12</i>	20	1	A94163201	Performa Drum Assembly W40 Q <i>Performa Drum W40 Q</i> <i>Ball 5/16"</i> <i>Winch STQ product sticker**</i>
	1	S413330085	<i>Bushing Ø12xØ14x11</i>	61		M0610280	
2	1	S413020004	Gear Z12	21	1	A94131800	Assy Winch 40 Jaws <i>Lower Jaw W35/40</i> <i>Upper Jaw W35/40</i> <i>Peeler W20 - 40</i> <i>SPRING</i>
3	1	S413030004	Pawls Carrier Ø8xN2		1	S413610080	
4	4	S000090004	Pawl Ø8*		4	S385970001	
5	4	S000380001	Pawl Spring Ø8*	22	4	M0601803	Screw UNI EN ISO 1207:1996 - M6x35 - A4
6	1	S412830041	Gear Z23	23	3	M6007103	Screw M6x50 UNI6107
7	1	S657380004	Performa Pin Ø9x10	24	1	A94149300	Assembly Socket W35-80 EL/HY <i>Socket Handle W20/80</i> <i>Washer Ø25xØ15x4</i> <i>Nut Screw for Disconnect Rod</i> <i>O ring RC 2025 series</i>
8	1	S279090002	Washer Ø36xØ9,5x1		1	S414940085	
9	1	S412970004	Gear Z20		1	S414930003	
10	1	S657370041	Performa Pinion Z13 W40		1	M0679797	
11	1	S413120002	Washer Ø22.5xØ45x1	25	1	S4141900A5	Cover 2 speed W40
12	1	S413070004	Pin Ø9xØ12x32.5	26	1	M6033794	Bushing XSM-1012-20
13	1	A94130500	Assy Gear Z20 <i>Gear Z20</i> <i>Bushing Ø12xØ14x8</i>	27	1	S657360019	Performa Black Stripper Arm W40
	2	S414900080		28	1	S415060002	Disconnect Rod W40
14	1	A94141500	Assy Housing Winch 40 <i>Support W40</i> <i>Heli-coil M6x9</i> <i>Bushing Ø9xØ11x7</i> <i>Bushing Ø22xØ25x8.5</i>				
	2	S414890080					
	1	S4130900A7					
15	6	M0635103	Socket head screw M6x16 UNI 5931				
16	2	A74136000	Bearing Ø56xØ68x24				

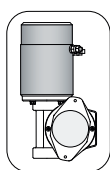
*Available with service kit; see website www.harken.com

**Winch product sticker

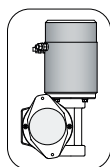


Horizontal electric motor

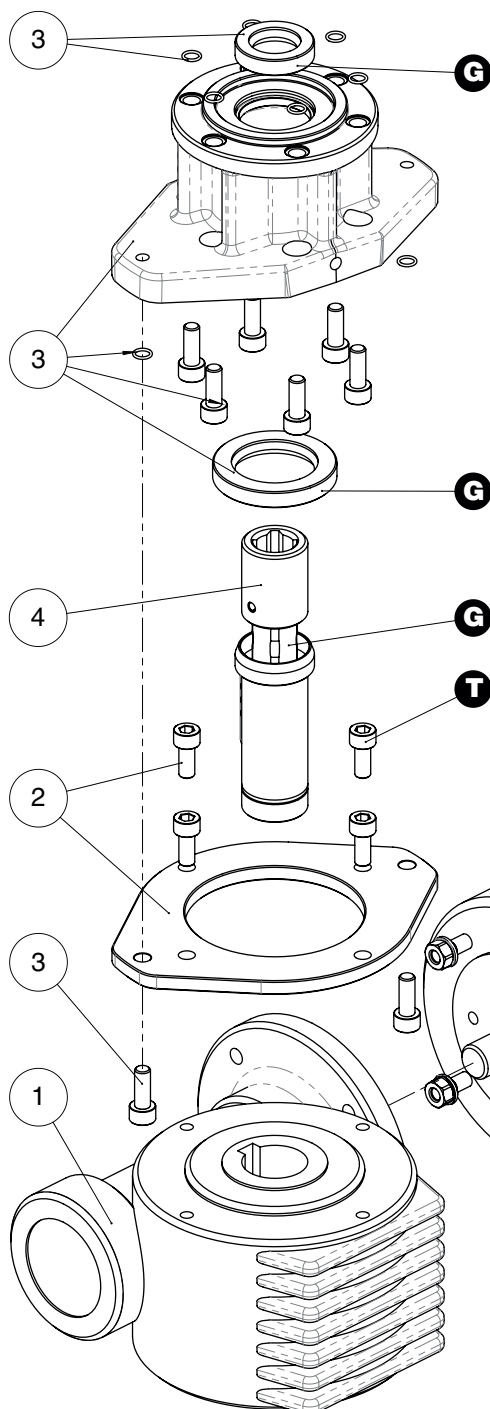
TOP VIEW



* Motor installed in right-hand configuration.



** Motor installed in left-hand configuration.



Pos	Q.ty	Code	Description
1	1	A93127900	KIT Gear Reduction 1/24
	1	A94194900	KIT LM Gear Reduction 1/24
2	1	A94149200	KIT Assy Electric Motor Flange
	1	A94149200L	KIT Assy Electric Motor Flange Left
	4	M0606803	Electric Motor Flange Screw M6x14 UNI 5931
3	1	A94149500	KIT EL HO Motor Flange
	8	S415360003	Horizontal Motorgear Flange Screw M6x16 UNI EN ISO 5931:2003 precote coating
	8	M601560097	O-Ring Seal ORM 0055-10 (Ø5,5 x Ø1)
	1	M6007297	Lip seal Ø17xØ30x7
4	1	M0612097	Sealer Ø30xØ47x7
	1	A94161600	KIT EL HO Motor Clutch
5	1	M0601402	Shaft Motorgear HO
	1	M6020097	Shaft GearMotor HO
	1	S418620001	Hub GearMotor
	1	S414050080	Dowel UNI EN ISO 8752:2000- Ø4x24
	1	M6010303	O-ring 19.1x1.6
	1	M6010303	Disconnect spring
	1	M6010303	Flange GearMotor Shaft HO
5	1	A96015400	Key 8x5x40 UNI 7511
	1	A96015700	KIT EL Motor 12V 0,7kW
	1	A96015700	KIT EL Motor 24V 0,9kW
	1	A96015700	Electric Motor
	1	A96015700	Polarity motor sticker
	1	A96015700	Screw stud M6x26
	1	A96015700	Washer Ø6
	1	A96015700	Nut M6 UNI5588
	1	A96015700	Key DIN 6885 5x5x15
	1	M6014206	

Polarity motor sticker

Identification motor sticker

- A** Anti-seize
- G** Harken® Grease
- T** Axial Threadlocker