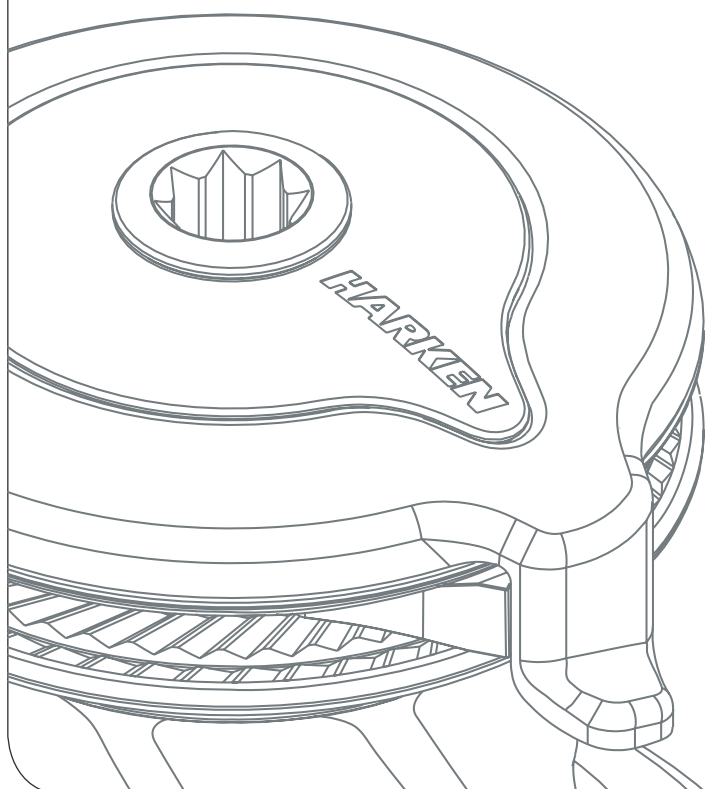


Installation and Maintenance Manual

MRRW-02

Radial[®] Electric Winch **40 Rewind[™]**



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	13,5 : 1	2,13 : 1
2nd speed	39,9 : 1	6,28 : 1

The theoretical power ratio does not take friction into account.

Performance data

40 Rewind™ Winch

	horizontal motor		horizontal motor	
	12 V (700 W)		24 V (700 W)	
	1st speed	2nd speed	1st speed	2nd speed
line speed (m/min)**	21	7,1	21	7,1
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
40 Rewind™ Winch	horizontal	700	700	215	80

Weight

	ST A	ST C/CW	ST BBB/CCC
weight (Kg)	15	16	17

Versions:

A = drum in anodised aluminium

C = drum in chrome bronze

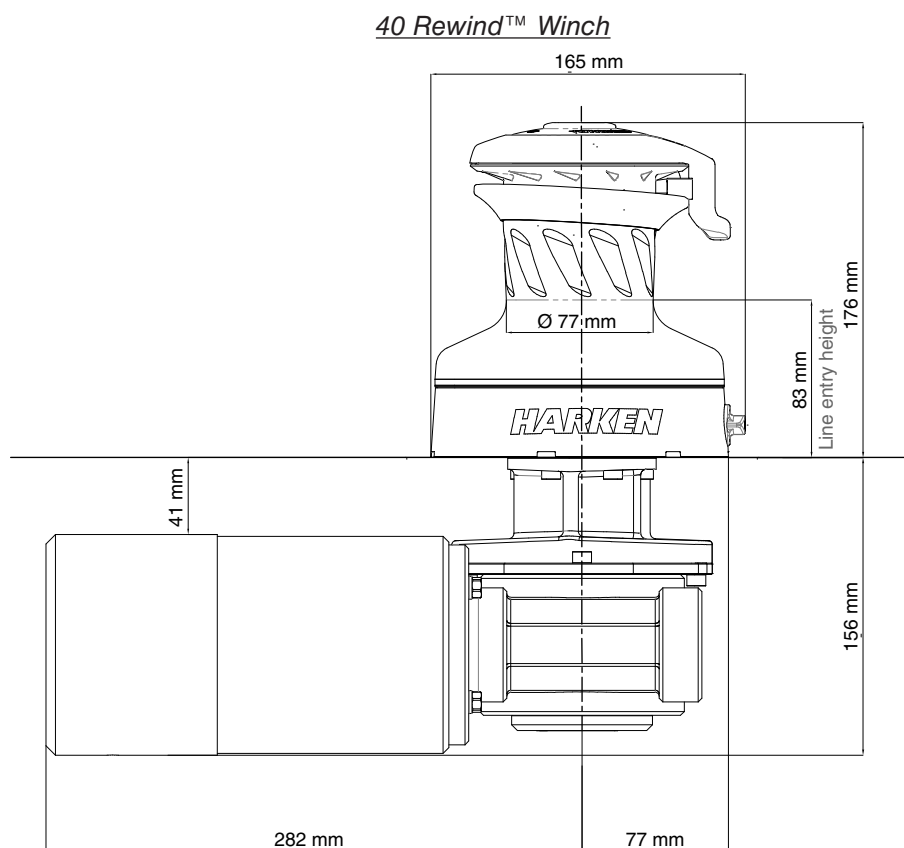
CW = chrome/white

BBB = all bronze

CCC = All-Chrome bronze

Maximum working load**WARNING!**

The maximum working load (MWL) for the 40 Rewind™ Winch is 850 Kg (1784 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**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!

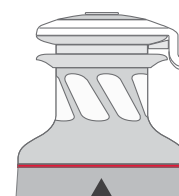
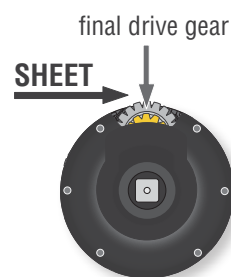
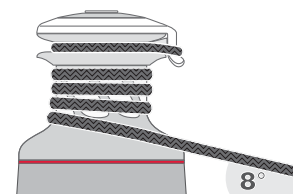
Verify the entry angle of the sheet. This must be 8° with tolerance of $\pm 2^\circ$, to avoid sheet overrides and damaging the winch or making the winch inoperable leading to loss of control of the boat which can lead to severe injury or death.


WARNING!

Mount the winch on the deck so that the final 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.

NOTICE

For winch STA, STC and STCW versions only you can find the icon ▲ on the skirt to identify the drive gear position.

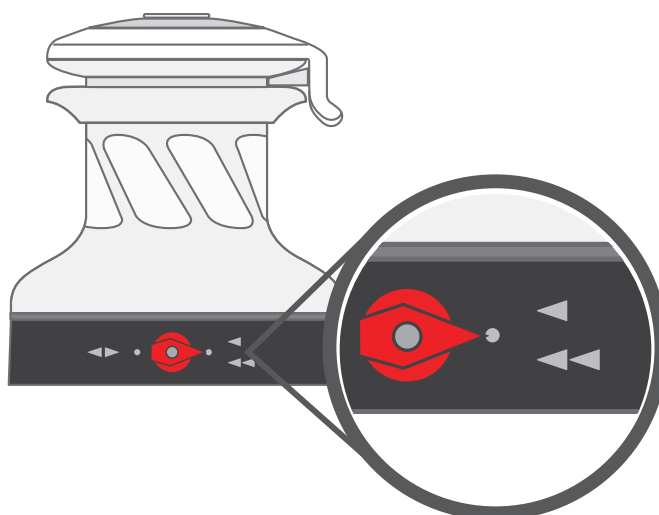


After correctly positioning the final drive gear with respect to the load, check that the motor, gearing, electrical wiring and/or hydraulic pipes can be housed below decks. To help find the optimal compromise, remember that, to make the installation of the motor easier, it can be coupled to the winch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

The winch can be installed following one of the two procedures below (**Procedure 1** or **Procedure 2**).

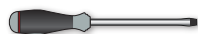
Before starting the Installation procedure, set the knob in the following position:



Procedure 1

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

Tools needed

-  One medium flat-bladed screwdriver
-  A number 6 hex key
-  A number 3 hex key

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

 Torque to apply when assembling

Install the winch on the deck in the position you have chosen, keeping in mind the limits described on page 4 and using socket head (SH) bolts.
(See paragraph on installation)



1. Pull out the disconnect rod n°31



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



3. Slide off the assy socket n°25 and the cover n°20.
Pay attention to the o-ring in the socket.



4. Unscrew the three screws n°19
($\approx 4\text{Nm}/35\text{ in-lb}$)



5. Remove the stripper arm n°21 by rotating and lifting it.



6. Lift off the drum n°38

Procedure 2

To install, you must remove the winch skirt and use hexagonal headed (HH) bolts.

Tools needed

-  A number 3 hex key
-  One medium flat-bladed screwdriver

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



1. Unscrew the screw n°26 and slide off the knob n°24 (0,5 Nm/ 4,42 in-lb)



2. Remove the skirt n°2 with the help of the screwdriver placed as shown by the symbol 



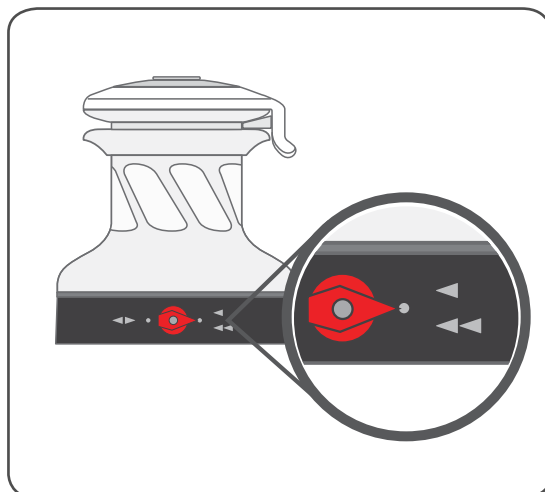
3. Position the 5 M6 hexagonal headed bolts in their holes



4. Reposition the skirt n°2 in its housing



5. Press down the skirt to position it correctly



6. Reposition the knob in the Rewind position (see figure)

NOTICE

Make sure the skirt is correctly clipped on to the base of the winch.

Install the winch on the deck in the position you have chosen, keeping in mind the limits described on page 4 and using hexagonal headed bolts.

(See paragraph on winch installation)

Winch installation procedure

Carry out **Procedure 1** or **Procedure 2**, then install the winch on the deck in the chosen position.

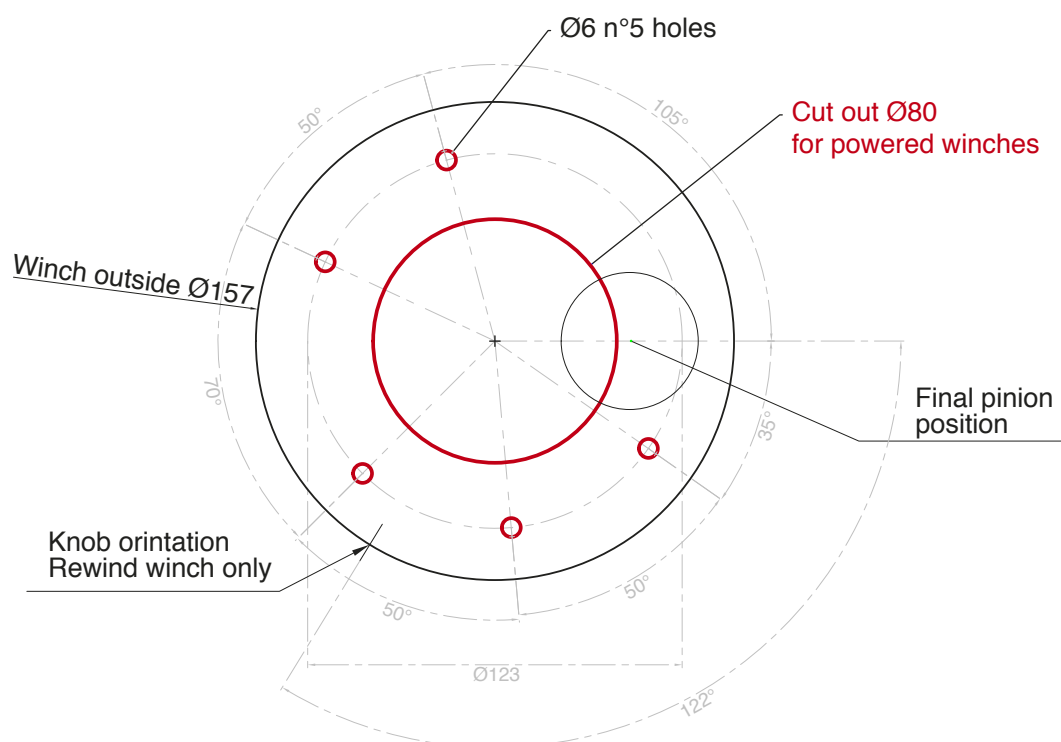
NOTICE

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.

Below is a reduced scale diagram.

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



- B.** Remove the winch and drill the five 6.2 mm diameter holes.
C. Bolt the base of the winch to the deck using five M6 bolts (not supplied by Harken®) as described at Procedure 1 or Procedure 2, 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 in **Procedure 1** or **Procedure 2** in the reverse order, and apply the products indicated in the section on maintenance.

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

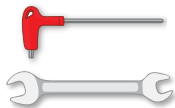


WARNING!

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

Two number thirteen wrenches



1. Position the flange (see Page 12)



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/ 71in-lb). Be sure to align the flange.

NOTICE

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



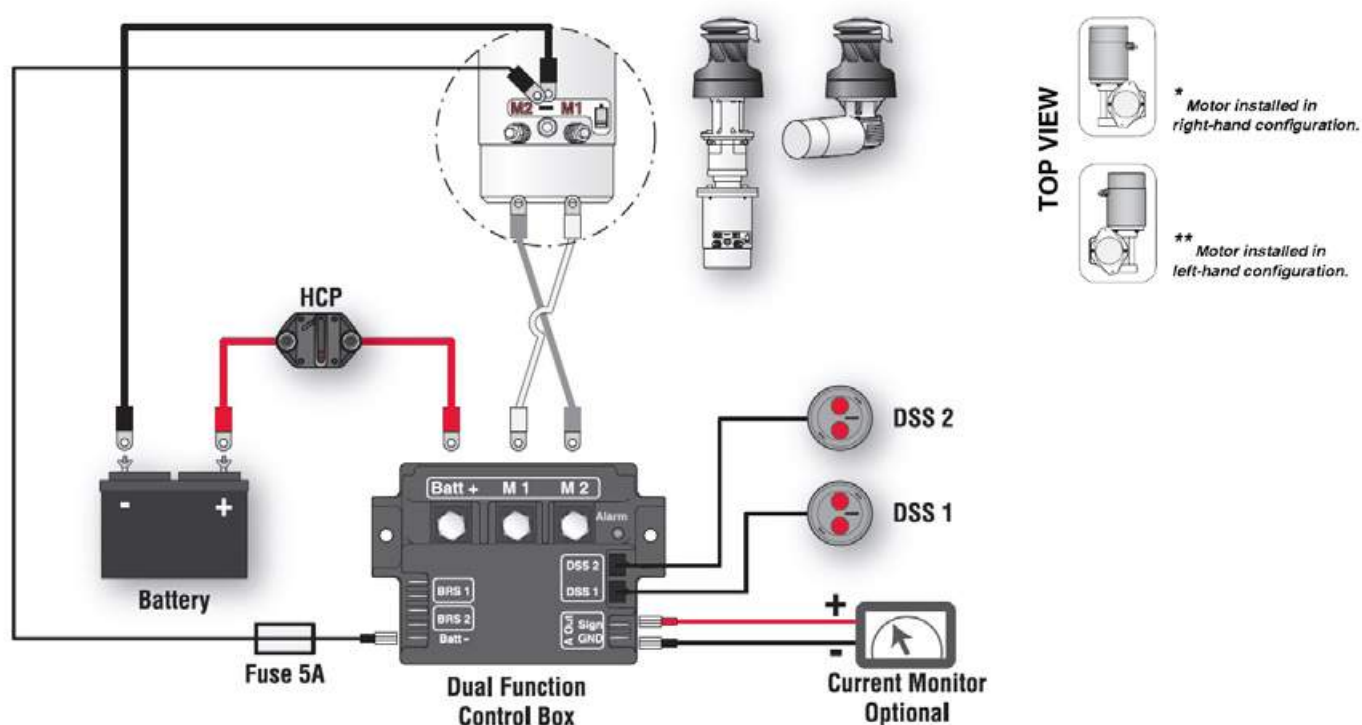
After winch is assembled and before sailing, test the powered winch functioning.

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:

Winch	Current voltage	Total distance between winch and battery							
		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 Rewind™	12 V	2	32	0	50	00	70	000	95
40 Rewind™	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 or stickers on the winches. 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

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

 Torque to be applied in assembly phase

Carry out **Procedure 1** as shown in the paragraph on winch installation and then do the following:



7. Remove the stripper arm support n°16



8. Slide out the bearings n°14 and the spacer n°13



9. Unscrew the 6 hex screws n°12
($\approx 20\text{Nm}/177\text{ in-lb}$)



10. Remove drum support n°11



11. Slide out the gear n°32



12. Remove pawls carrier n°33.
Pay attention to the springs.



13. Slide out the pin n°5



14. Remove the gear n°7 and the pinion n°8



15. Pay attention to the springs and to the spacer n°6



16. Untighten the screw n°29



17. Remove the command group



18. Slide out main shaft n°30 and pay attention to the two balls n°35



19. Remove the gear n°10

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



I. Unscrew the 4 screws n°18
(4Nm/35 in-lb)



II. Remove the jaws n°39

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.

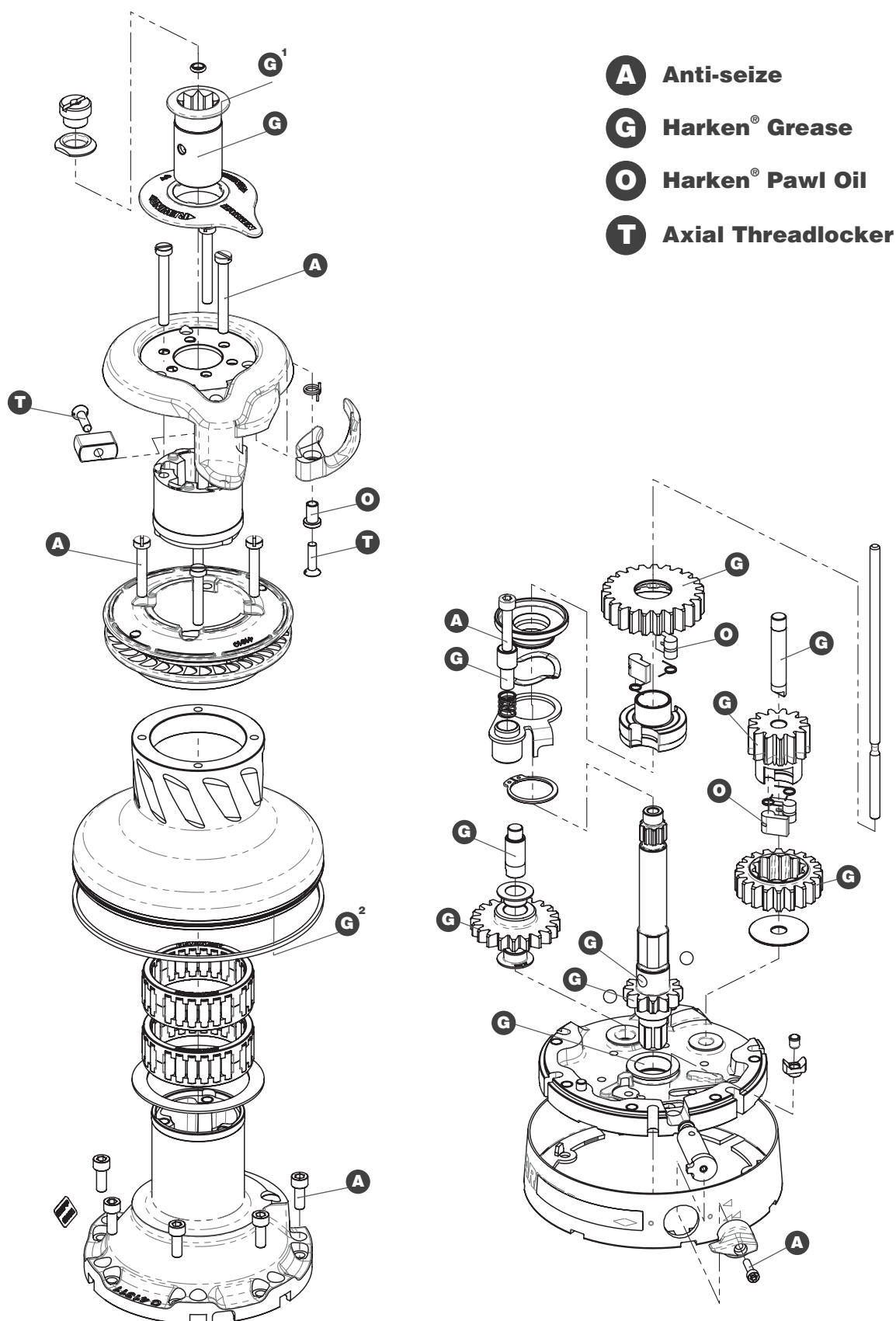
Carefully check the teeth of gears and ring gears to make sure there are no traces of wear.

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



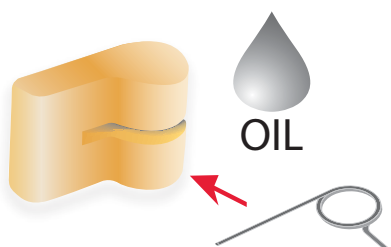
¹Apply Harken® grease on assy socket screw

²Apply Harken® grease on drum gear

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.

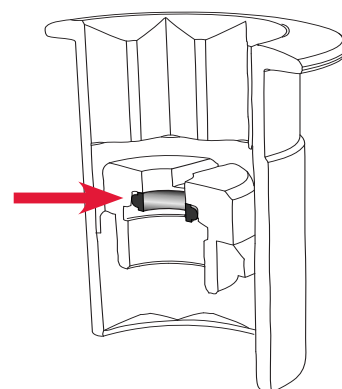


To assemble the pawls:

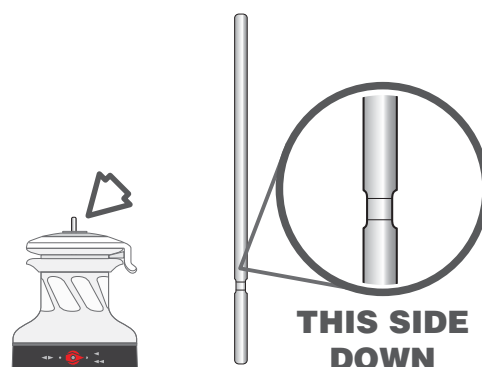
correctly position the spring in its housing as shown at left. Hold the spring closed and slide the pawl into its housing. Once in position, check that the pawls can be easily opened and closed with a finger.

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

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



NOTICE! Insert the disconnect rod in the winch, with the groove in the lower part of the rod.



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

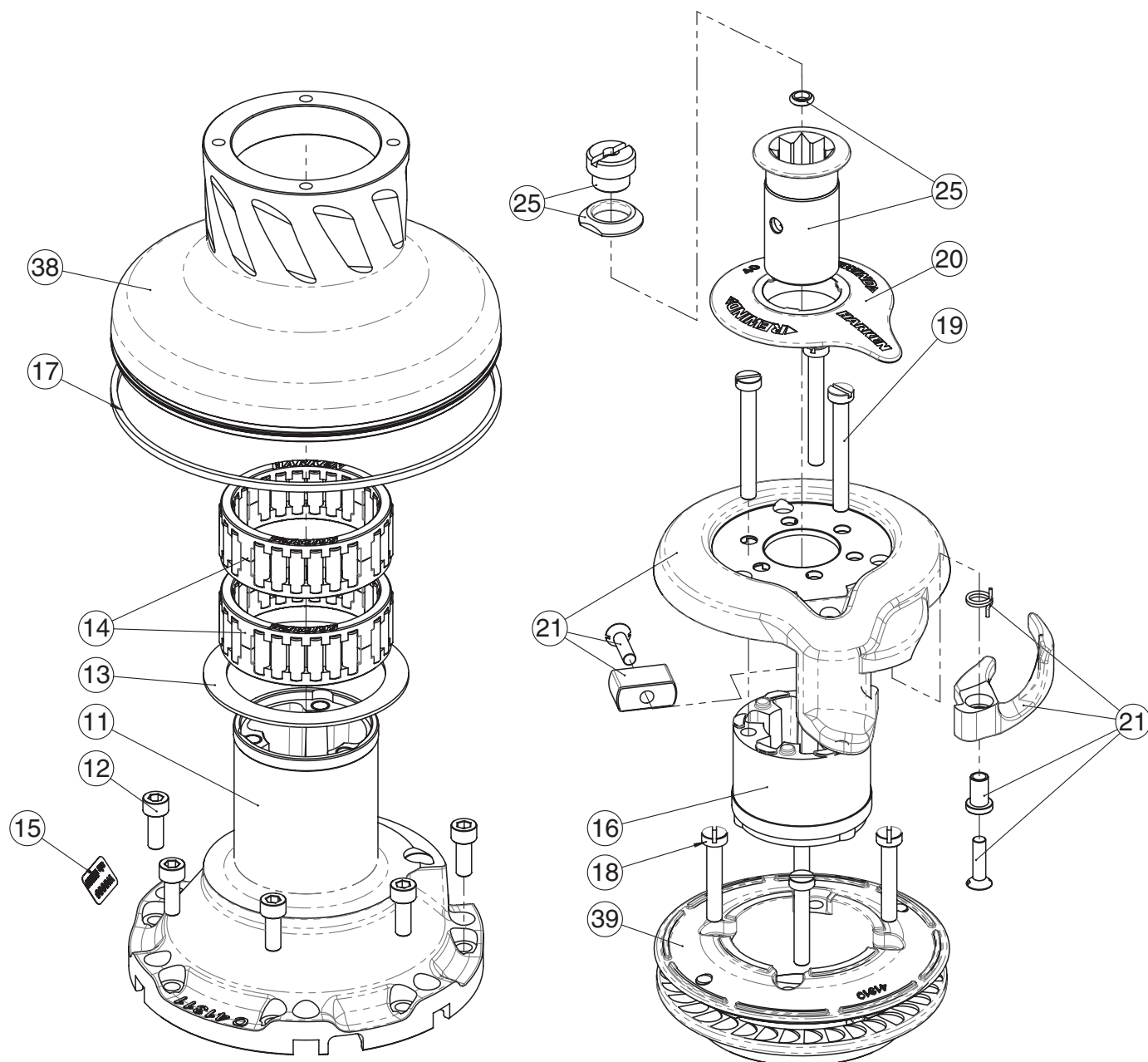
Harken®, Inc.

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

Exploded view

40 Rewind STA, STC, STCW, STBBB, STCCC EL Winch



Parts List

40 Rewind™ STA EL Winch

A = drum in anodised aluminium

Pos.	Q.ty	Code	Description	Pos.	Q.ty	Code	Description
1	1	A96639600	Assy Base Winch 40 EL/HY Base W40 rewind Heli-coil M6x9	21	1	A76639100	Stripper arm W40 Rewind Stripper arm W40 C Rewind
	1	S4130900A7	Bushing Ø22xØ25x8.5		1	S6639200F0	Peeler W40 Rewind
	1	S413960085	Bushing Ø9xØ11x12		1	S419170080	Slider
	1	S413330085	Bushing Ø12xØ14x11		1	S416570001	Spring stripper arm W46 Rewind
	1	M6009463	Spring loaded ball plunger Ø6		1	S416580041	Bushing
	1	S664020052	Spacer		2	M0619003	Screw M5x20 UNI 6109
	1	S413350080	Roller Ø6x19	22	1	A74165000	Command for W46 Rewind
2	1	A96640100	Assembly Skirt Winch 40 Skirt W40 rewind Winch Product Sticker**	23	1	A96640000	Assy knob W40 Rewind Knob W40 Rewind Heli-coil M4x8
3	4	S000080003	Pawl Ø8*		1	S419190004	Pin for knob
4	4	S000380001	Pawl Spring Ø8*		1	S419200041	Bushing Ø6.5xØ4x3
5	1	S413000004	Pin Ø9x55	24	1	S497400080	Knob W46 rewind
6	1	S279090002	Washer Ø36xØ9,5x1	25	1	A94165200	Assy socket W46 Rewind Socket Handle W46 Rewind
7	1	S412970004	Gear Z20		1	S414940085	Washer Ø25xØ15x4
8	1	S412850041	Pinion Z13		1	S414930003	Nut Screw for Disconnect Rod
9	1	S413070004	Pin Ø9xØ12x32.5		1	M0679797	O ring RC 2025 series
10	1	A76639900	Assy Gear Z20 Gear Z20	26	1	M0624103	Screw M4x16 UNI5931
	2	S414900080	Bushing Ø12xØ14x8	27	1	S418590001	Spring Ø10.67x12.7 rif.SPEC C0420-035-0500S
11	1	A96639700	Assy Housing Winch 40 RW Support W40 rewind Heli-coil M6x9	28	1	S416530004	Pin for switch W46 Rewind
	2	S414890080	Bushing Ø9xØ11x7	29	1	M0624203	Screw M6x30
	1	S4130900A7	Bushing Ø22xØ25x8.5	30	1	S663950004	Main shaft W40 Rewind
12	6	M0635103	Socket head screw M6x16 UNI 5931	31	1	S663980002	Disconnect rod 40 Rewind
13	1	S413150082	Washer Ø62xØ80x1.5	32	1	S416240041	Gear Z23
14	2	A74136000	Bearing Ø56xØ68x24	33	1	S664060004	Pawls carrier Ø8xN2 W40.2 RW
15			Winch Serial Number Sticker	34	1	S416260041	Disconnect flange
16	1	S4129400A0	Stripper arm support	35	2	M0614103	Ball 5-16" inox
17	1	S281680097	Red line	36	1	M0616603	Seeger Ring UNI 7435:1975 - Ø28 mat. 17-7 Ph
18	4	M0601803	Screw UNI EN ISO 1207:1996 - M6x35 - A4	37	1	M0630802	SMALLEY RING SSR0137-S17
19	3	M6007103	Screw M6x50 UNI6107	38	1	S663930053	Drum A W40 RW
20	1	S6640300A5	Cover 2 speed W40 RW	39	1	A96639400	Assy jaws Winch 40 Rewind Lower Jaw W40 Rewind Upper Jaw W35/40 SPRING
				4		S385970001	

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

**Winch product sticker



40 Rewind™ STC EL Winch

C = drum in chrome bronze

Pos.	Q.ty	Code	Description	Pos.	Q.ty	Code	Description
1	1	A96639600	Assy Base Winch 40 EL/HY Base W40 rewind Heli-coil M6x9	21	1	A76639100	Stripper arm W40 Rewind Stripper arm W40 C Rewind
	1	S4130900A7	Bushing Ø22xØ25x8.5		1	S6639200F0	Peeler W40 Rewind
	1	S413960085	Bushing Ø9xØ11x12		1	S419170080	Slider
	1	S413330085	Bushing Ø12xØ14x11		1	S416570001	Spring stripper arm W46 Rewind
	1	M6009463	Spring loaded ball plunger Ø6		1	S416580041	Bushing
	1	S664020052	Spacer		2	M0619003	Screw M5x20 UNI 6109
	1	S413350080	Roller Ø6x19	22	1	A74165000	Command for W46 Rewind
2	1	A96640100	Assembly Skirt Winch 40 Skirt W40 rewind Winch Product Sticker**	23	1	A96640000	Assy knob W40 Rewind Knob W40 Rewind Heli-coil M4x8
3	4	S000080003	Pawl Ø8*		1	S419190004	Pin for knob
4	4	S000380001	Pawl Spring Ø8*		1	S419200041	Bushing Ø6.5xØ4x3
5	1	S413000004	Pin Ø9x55	24	1	S497400080	Knob W46 rewind
6	1	S279090002	Washer Ø36xØ9,5x1	25	1	A94165200	Assy socket W46 Rewind Socket Handle W46 Rewind
7	1	S412970004	Gear Z20		1	S414940085	Washer Ø25xØ15x4
8	1	S412850041	Pinion Z13		1	S414930003	Nut Screw for Disconnect Rod
9	1	S413070004	Pin Ø9xØ12x32.5		1	M0679797	O ring RC 2025 series
10	1	A76639900	Assy Gear Z20 Gear Z20	26	1	M0624103	Screw M4x16 UNI5931
	2	S414900080	Bushing Ø12xØ14x8	27	1	S418590001	Spring Ø10.67x12.7 rif.SPEC C0420-035-0500S
11	1	A96639700	Assy Housing Winch 40 RW Support W40 rewind Heli-coil M6x9	28	1	S416530004	Pin for switch W46 Rewind
	2	S414890080	Bushing Ø9xØ11x7	29	1	M0624203	Screw M6x30
	1	S4130900A7	Bushing Ø22xØ25x8.5	30	1	S663950004	Main shaft W40 Rewind
12	6	M0635103	Socket head screw M6x16 UNI 5931	31	1	S663980002	Disconnect rod 40 Rewind
13	1	S413150082	Washer Ø62xØ80x1.5	32	1	S416240041	Gear Z23
14	2	A74136000	Bearing Ø56xØ68x24	33	1	S664060004	Pawls carrier Ø8xN2 W40.2 RW
15			Winch Serial Number Sticker	34	1	S416260041	Disconnect flange
16	1	S4129400A0	Stripper arm support	35	2	M0614103	Ball 5-16" inox
17	1	S281680097	Red line	36	1	M0616603	Seeger Ring UNI 7435:1975 - Ø28 mat. 17-7 Ph
18	4	M0601803	Screw UNI EN ISO 1207:1996 - M6x35 - A4	37	1	M0630802	SMALLEY RING SSR0137-S17
19	3	M6007103	Screw M6x50 UNI6107	38	1	S664050043	Drum C W40 RW
20	1	S6640300A5	Cover 2 speed W40 RW	39	1	A96639400	Assy jaws Winch 40 Rewind Lower Jaw W40 Rewind Upper Jaw W35/40
				4		S385970001	SPRING

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

**Winch product sticker



40 Rewind™ STCW EL Winch

CW = chrome/white

Pos.	Q.ty	Code	Description	Pos.	Q.ty	Code	Description
1	1	A96639600	Assy Base Winch 40 EL/HY Base W40 rewind Heli-coil M6x9	21	1	A76639100	Stripper arm W40 Rewind Stripper arm W40 C Rewind
	1	S4130900A7	Bushing Ø22xØ25x8.5		1	S6639200F0	Peeler W40 Rewind
	1	S413960085	Bushing Ø9xØ11x12		1	S419170080	Slider
	1	S413330085	Bushing Ø12xØ14x11		1	S416570001	Spring stripper arm W46 Rewind
	1	M6009463	Spring loaded ball plunger Ø6		1	S416580041	Bushing
	1	S664020052	Spacer		2	M0619003	Screw M5x20 UNI 6109
	1	S413350080	Roller Ø6x19	22	1	A74165000	Command for W46 Rewind
2	1	A96640100W	Assembly Skirt Winch 40 RAL 9003 Skirt W40 Rewind RAL 9003 Winch Product Sticker**	23	1	A96640000	Assy knob W40 Rewind Knob W40 Rewind Heli-coil M4x8
3	4	S000080003	Pawl Ø8*		1	S419190004	Pin for knob
4	4	S000380001	Pawl Spring Ø8*		1	S419200041	Bushing Ø6.5xØ4x3
5	1	S413000004	Pin Ø9x55	24	1	S497400080	Knob W46 rewind
6	1	S279090002	Washer Ø36xØ9,5x1	25	1	A94165200	Assy socket W46 Rewind Socket Handle W46 Rewind
7	1	S412970004	Gear Z20		1	S414940085	Washer Ø25xØ15x4
8	1	S412850041	Pinion Z13		1	S414930003	Nut Screw for Disconnect Rod
9	1	S413070004	Pin Ø9xØ12x32.5		1	M0679797	O ring RC 2025 series
10	1	A76639900	Assy Gear Z20 Gear Z20	26	1	M0624103	Screw M4x16 UNI5931
	2	S414900080	Bushing Ø12xØ14x8	27	1	S418590001	Spring Ø10.67x12.7 rif.SPEC C0420-035-0500S
11	1	A96639700	Assy Housing Winch 40 RW Support W40 rewind Heli-coil M6x9	28	1	S416530004	Pin for switch W46 Rewind
	2	S414890080	Bushing Ø9xØ11x7	29	1	M0624203	Screw M6x30
	1	S4130900A7	Bushing Ø22xØ25x8.5	30	1	S663950004	Main shaft W40 Rewind
12	6	M0635103	Socket head screw M6x16 UNI 5931	31	1	S663980002	Disconnect rod 40 Rewind
13	1	S413150082	Washer Ø62xØ80x1.5	32	1	S416240041	Gear Z23
14	2	A74136000	Bearing Ø56xØ68x24	33	1	S664060004	Pawls carrier Ø8xN2 W40.2 RW
15			Winch Serial Number Sticker	34	1	S416260041	Disconnect flange
16	1	S4129400A0	Stripper arm support	35	2	M0614103	Ball 5-16" inox
17	1	S281680097	Red line	36	1	M0616603	Seeger Ring UNI 7435:1975 - Ø28 mat. 17-7 Ph
18	4	M0601803	Screw UNI EN ISO 1207:1996 - M6x35 - A4	37	1	M0630802	SMALLEY RING SSR0137-S17
19	3	M6007103	Screw M6x50 UNI6107	38	1	S664050043	Drum 40 C rewind
20	1	S6640300A5W	Cover 2 Speed W40 RW RAL 9003	39	1	A96639400W	Assy jaws Winch 40 Rewind RAL 9003 Lower Jaw W40 Upper Jaw W35/40 RAL 9003
					4	S385970001	SPRING

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

**Winch product sticker



40 Rewind™ STBBB EL Winch

BBB = all bronze

Pos.	Q.ty	Code	Description	Pos.	Q.ty	Code	Description
1	1	A96639600	Assy Base Winch 40 EL/HY Base W40 rewind Heli-coil M6x9	21	1	A76939100	Stripper arm W40 BBB Rewind Stripper arm W40 C Rewind
	1	S4130900A7	Bushing Ø22xØ25x8.5		1	S6639200F0	Peeler W40 Rewind
	1	S413960085	Bushing Ø9xØ11x12		1	S419170080	Slider
	1	S413330085	Bushing Ø12xØ14x11		1	S416570001	Spring stripper arm W46 Rewind
	1	M6009463	Spring loaded ball plunger Ø6		1	S416580041	Bushing
	1	S664020052	Spacer		2	M0619003	Screw M5x20 UNI 6109
	1	S413350080	Roller Ø6x19	22	1	A74165000	Command for W46 Rewind
2	1	A96939500	Assembly Skirt Winch 40 BBB Rewind Skirt W40 BBB Rewind Winch Product Sticker**	23	1	A96640000	Assy knob W40 Rewind Knob W40 Rewind Heli-coil M4x8
3	4	S000080003	Pawl Ø8*		1	S419190004	Pin for knob
4	4	S000380001	Pawl Spring Ø8*		1	S419200041	Bushing Ø6.5xØ4x3
5	1	S413000004	Pin Ø9x55	24	1	S497400080	Knob W46 rewind
6	1	S279090002	Washer Ø36xØ9,5x1	25	1	A94165200	Assy socket W46 Rewind Socket Handle W46 Rewind
7	1	S412970004	Gear Z20		1	S414940085	Washer Ø25xØ15x4
8	1	S412850041	Pinion Z13		1	S414930003	Nut Screw for Disconnect Rod
9	1	S413070004	Pin Ø9xØ12x32.5		1	M0679797	O ring RC 2025 series
10	1	A76639900	Assy Gear Z20 Gear Z20	26	1	M0624103	Screw M4x16 UNI5931
	2	S414900080	Bushing Ø12xØ14x8	27	1	S418590001	Spring Ø10.67x12.7 rif.SPEC C0420-035-0500S
11	1	A96639700	Assy Housing Winch 40 RW Support W40 rewind Heli-coil M6x9	28	1	S416530004	Pin for switch W46 Rewind
	2	S414890080	Bushing Ø9xØ11x7	29	1	M0624203	Screw M6x30
	1	S4130900A7	Bushing Ø22xØ25x8.5	30	1	S663950004	Main shaft W40 Rewind
12	6	M0635103	Socket head screw M6x16 UNI 5931	31	1	S663980002	Disconnect rod 40 Rewind
13	1	S413150082	Washer Ø62xØ80x1.5	32	1	S416240041	Gear Z23
14	2	A74136000	Bearing Ø56xØ68x24	33	1	S664060004	Pawls carrier Ø8xN2 W40.2 RW
15			Winch Serial Number Sticker**	34	1	S416260041	Disconnect flange
16	1	S4129400A0	Stripper arm support	35	2	M0614103	Ball 5-16" inox
17	1	S281680097	Red line	36	1	M0616603	Seeger Ring UNI 7435:1975 - Ø28 mat. 17-7 Ph
18	4	M0601803	Screw UNI EN ISO 1207:1996 - M6x35 - A4	37	1	M0630802	SMALLEY RING SSR0137-S17
19	3	M6007103	Screw M6x50 UNI6107	38	1	S693960043	Drum W40 BBB Rewind
20	1	A76939700	Cover W40 BBB Rewind	39	1	A96939900	Assy jaws Winch 40 BBB Rewind Lower Jaw W40 BBB Rewind Upper Jaw W35/40
				4		S385970001	SPRING

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

**Winch product sticker



40 Rewind™ STCCC EL Winch

CCC = All-Chrome bronze

Pos.	Q.ty	Code	Description	Pos.	Q.ty	Code	Description
1	1	A96639600	Assy Base Winch 40 EL/HY Base W40 rewind Heli-coil M6x9	21	1	A76639100	Stripper arm W40 Rewind Stripper arm W40 C Rewind
	1	S4130900A7	Bushing Ø22xØ25x8.5		1	S6639200F0	Peeler W40 Rewind
	1	S413960085	Bushing Ø9xØ11x12		1	S419170080	Slider
	1	S413330085	Bushing Ø12xØ14x11		1	S416570001	Spring stripper arm W46 Rewind
	1	M6009463	Spring loaded ball plunger Ø6		1	S416580041	Bushing
	1	S664020052	Spacer		2	M0619003	Screw M5x20 UNI 6109
	1	S413350080	Roller Ø6x19	22	1	A74165000	Command for W46 Rewind
2	1	A96939300	Assembly Skirt Winch 40 CCC Rewind Skirt W40 CCC Rewind Winch Product Sticker**	23	1	A96640000	Assy knob W40 Rewind Knob W40 Rewind Heli-coil M4x8
3	4	S000080003	Pawl Ø8*		1	S419190004	Pin for knob
4	4	S000380001	Pawl Spring Ø8*		1	S419200041	Bushing Ø6.5xØ4x3
5	1	S413000004	Pin Ø9x55	24	1	S497400080	Knob W46 rewind
6	1	S279090002	Washer Ø36xØ9,5x1	25	1	A94165200	Assy socket W46 Rewind Socket Handle W46 Rewind
7	1	S412970004	Gear Z20		1	S414940085	Washer Ø25xØ15x4
8	1	S412850041	Pinion Z13		1	S414930003	Nut Screw for Disconnect Rod
9	1	S413070004	Pin Ø9xØ12x32.5		1	M0679797	O ring RC 2025 series
10	1	A76639900	Assy Gear Z20 Gear Z20	26	1	M0624103	Screw M4x16 UNI5931
	2	S414900080	Bushing Ø12xØ14x8	27	1	S418590001	Spring Ø10.67x12.7 rif.SPEC C0420-035-0500S
11	1	A96639700	Assy Housing Winch 40 RW Support W40 rewind Heli-coil M6x9	28	1	S416530004	Pin for switch W46 Rewind
	2	S414890080	Bushing Ø9xØ11x7	29	1	M0624203	Screw M6x30
	1	S4130900A7	Bushing Ø22xØ25x8.5	30	1	S663950004	Main shaft W40 Rewind
12	6	M0635103	Socket head screw M6x16 UNI 5931	31	1	S663980002	Disconnect rod 40 Rewind
13	1	S413150082	Washer Ø62xØ80x1.5	32	1	S416240041	Gear Z23
14	2	A74136000	Bearing Ø56xØ68x24	33	1	S664060004	Pawls carrier Ø8xN2 W40.2 RW
15			Winch Serial Number Sticker	34	1	S416260041	Disconnect flange
16	1	S4129400A0	Stripper arm support	35	2	M0614103	Ball 5-16" inox
17	1	S281680097	Red line	36	1	M0616603	Seeger Ring UNI 7435:1975 - Ø28 mat. 17-7 Ph
18	4	M0601803	Screw UNI EN ISO 1207:1996 - M6x35 - A4	37	1	M0630802	SMALLEY RING SSR0137-S17
19	3	M6007103	Screw M6x50 UNI6107	38	1	S664050043	Drum 40 C rewind
20	1	A76939400	Cover W40 CCC Rewind	39	1	A96939800	Assy jaws Winch 40 CCC Rewind Lower Jaw W40 CCC Rewind Upper Jaw W35/40 RAL9003
					4	S385970001	SPRING

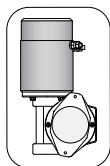
*Available with service kit; see website www.harken.com

**Winch product sticker

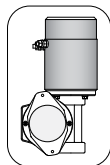


Horizontal electric motor 12V/24V

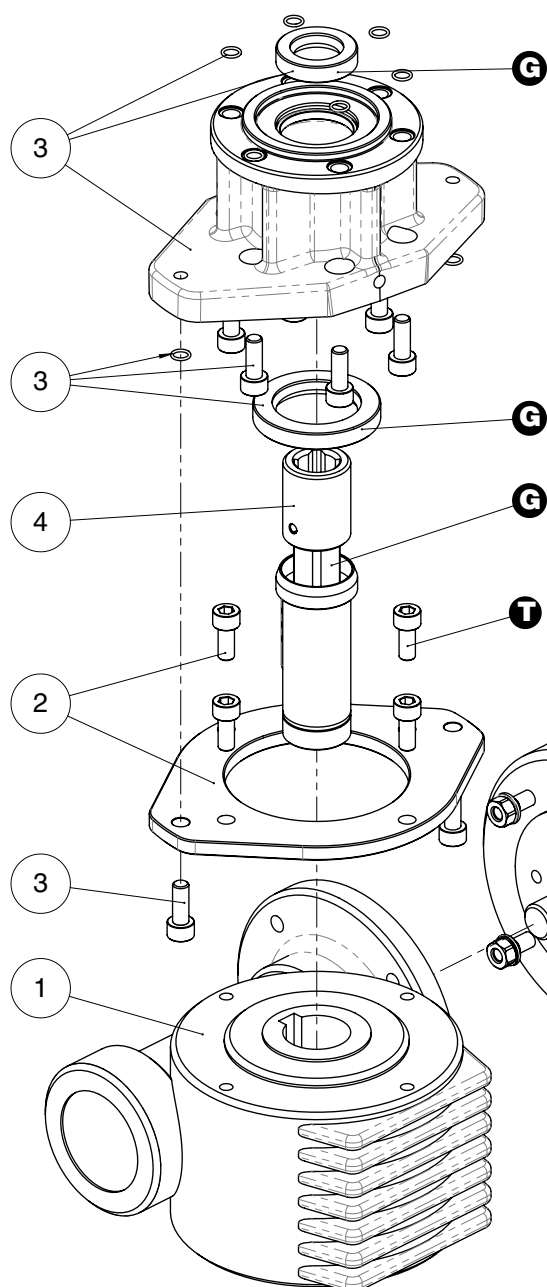
TOP VIEW



* 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	M6015697	O-Ring Seal ORM 0055-10 (Ø5,5xØ1)
	1	M6007297	Lip seal Ø17xØ30x7
	1	M0612097	Sealer Ø30xØ47x7
4	1	A94161600	KIT EL HO Motor Clutch
			Shaft Motorgear HO
			Shaft GearMotor HO
			Hub GearMotor
	1	M0601402	Dowel UNI EN ISO 8752:2000- Ø4x24
	1	S418620001	Disconnect spring
	1	S414050080	Flange GearMotor Shaft HO
5	1	M6010303	Key 8x5x40 UNI 7511
	1	M6020097	O-ring Ø19.1x1.6
	1	A96024100	KIT EL Motor 12V 0,7kW
	1	A96033800	KIT EL Motor 24V 0,7kW
			Electric Motor
			Polarity motor sticker
			Screw stud M6x26
			Washer Ø6
			Nut M6 UNI5588
	1	M6014206	Key DIN 6885 5x5x15
			Identification motor sticker

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