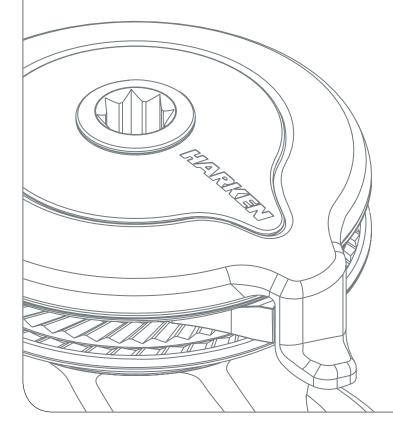
Installation and Maintenance Manual

MRRW-04

Radial[®] Electric Winch 60 Rewind[™]





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Introduction - Technical characteristics

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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	20,30 : 1	4,80 : 1
2nd speed	61,00 : 1	14,41 : 1

The theoretical power ratio does not take friction into account.

Performance data

60 Rewind [™] Winch

	horizont	al motor	horizontal motor			
	12 V (1	500 W)	24 V (2	000 W)		
	1st speed	2nd speed	1st speed	2nd speed		
line speed (m/min)**	17,7	5,9	17,7	5,9		
max load (Kg)	600	1800	600	1800		

**Line speed is measured with no load

		motor nomin	al power (W)	current absorption at winch MWL (A)			
		12 V	24 V	12 V	24 V		
60 Rewind™ Winch	horizontal	1500	2000	260	135		

Weight

	ST A	ST C/CW	ST BBB/CCC
weight (Kg)	22	26	27,3

Versions: A = drum in anodised aluminium C = drum in chrome bronze CW = chrome/white BBB = all bronze

CCC = All-Chrome bronze

Outline - Installation



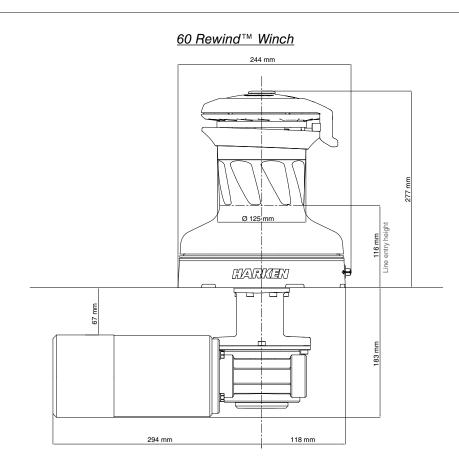
Maximum working load



WARNING!

The maximum working load (MWL) for the 60 Rewind[™] Winch is 1800 Kg (3968 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!

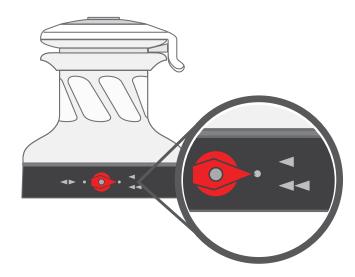
Mount the winch on the deck so that the final drive gear is positioned where the sheet enters the winch drum. Incorrect position of drive gear can weaken winch leading to failure which can cause an accident leading to severe injury or death.

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 the two procedure below (Winch installation procedure).

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





Winch installation procedure

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

Tools needed



One medium flat-bladed screwdriver A number 5 hex key 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.

³ √ Torque to apply when assembling



1. Pull out the disconnect rod n°21



2. Unscrew the central screw (~2Nm/18 in-lb)



3. Slide off the assy socket n°35 and the cover n°19. Pay attention to the o-ring in the socket.



4. Unscrew the three screws n°41 ($^{\circ}_{4}$ 4Nm/35 in-lb)





5. Remove the stripper arm n°44 by rotating and lifting it.

6. Lift off the drum n°20

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.

Follow steps below only to install the winch using hexagonal headed bolts



7. Unscrew the 6 hex screws n°14 (% 20Nm/177 in-lb)



8. Lift off the spacer n°38



9. Remove the assy drum support n°13

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 M8 bolts.

Winch drilling cut-out

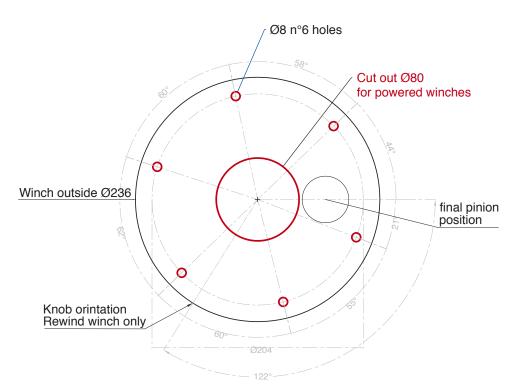
NOTICE

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 six 8.5 mm diameter holes.
- **C.** Bolt the base of the winch to the deck using six M8 Socket Head (SH) bolts for Winch installation procedure (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 in **Winch installation procedure** 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

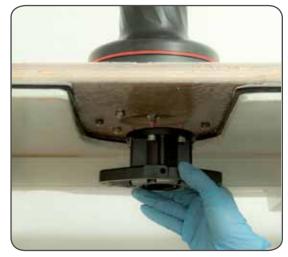
Motor installation procedure

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.

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

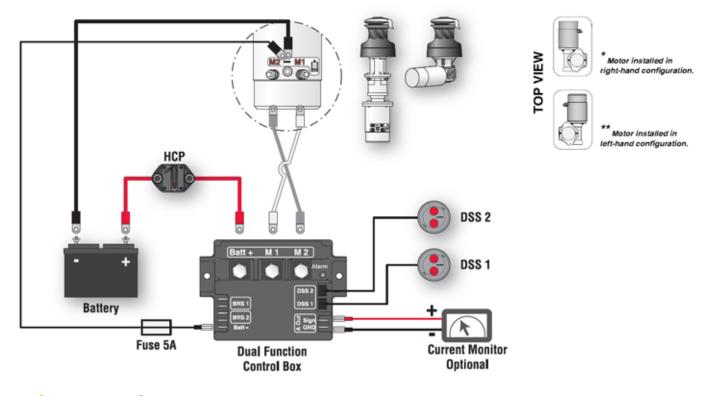
After winch is assembled and before sailing, test the powered winch functioning.

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:

Total distance between winch and battery
--

Winch	Current voltage	Under 16.4 ft AWG	Under 5 m mm²	16.4 - 32.8 ft AWG	5 m - 10 m mm²	32.8 - 49.2 ft AWG	10 m - 15 m mm²	49.2 - 65.6 ft AGW	15 m - 20 m mm²
60 Rewind™	12 V	2	32	0	50	00	70	000	95
60 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

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 and six hex key
Brush

Rags

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

 $^{\sim}$ Torque to be applied in assembly phase

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



7.Unscrew the 6 hex screws n°14 (~20Nm/177 in-lb)



8. Lift off the spacer n°38



9. Remove the assy drum support n°13



10. Slide out the central shaft n°24 and pay attention to the two balls n°26



11. Remove the idler and pinion n°11 and slide out the two roller bearing n°12



12. Remove the pawls carrier gear n°8 and slide out the 2 roller bearings n°9



13. Remove the ratchet gear n°7

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



I. Unscrew the 4 screws n°39 (∛4Nm/35 in-lb)



II. Remove the jaws n°43

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.

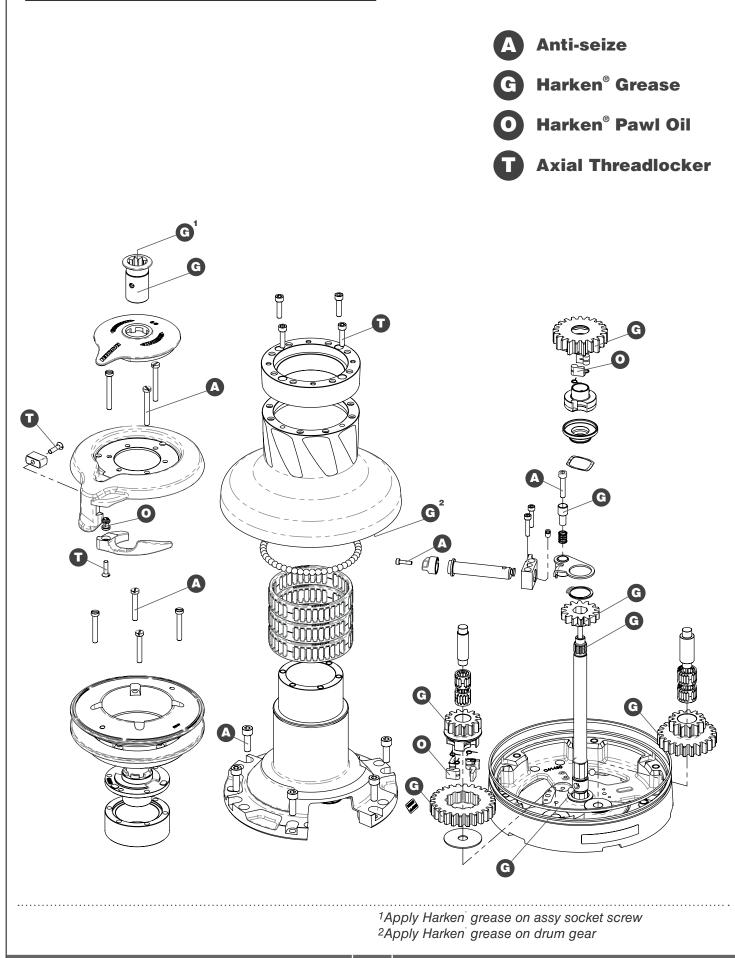
Carefully check the teeth of gears and ring gears to make sure there are no traces of wear.

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

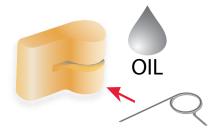




Winch assembly

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.



SIDE

DOWN

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

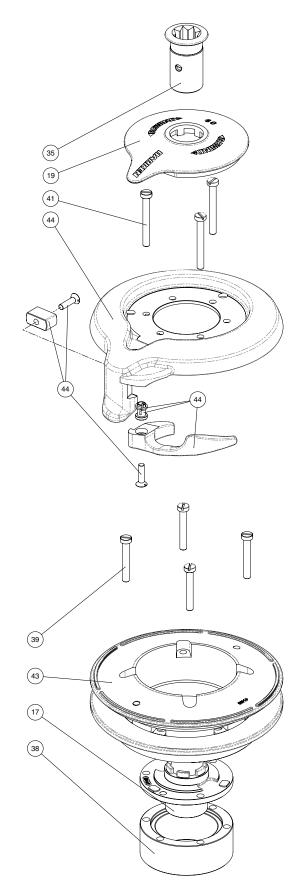
Headquarters

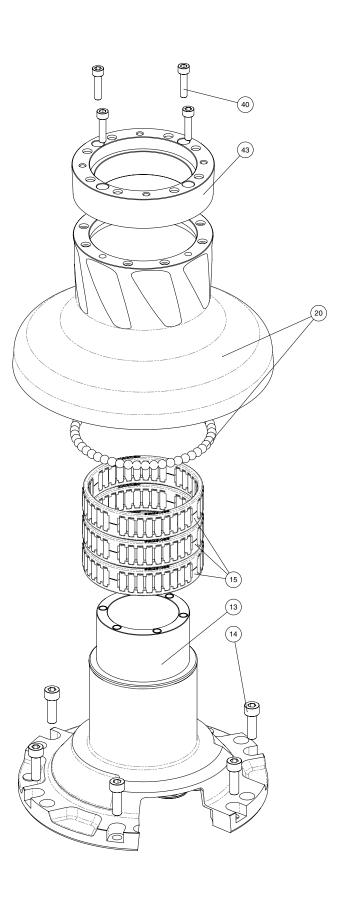
Harken[°], Inc. 1251 East Wisconsin Avenue Pewaukee, Wisconsin 53072-3755 USA Tel: (262) 691.3320 Fax: (262) 691.3008 Email: harken@harken.com Web: www.harken.com

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

Exploded view

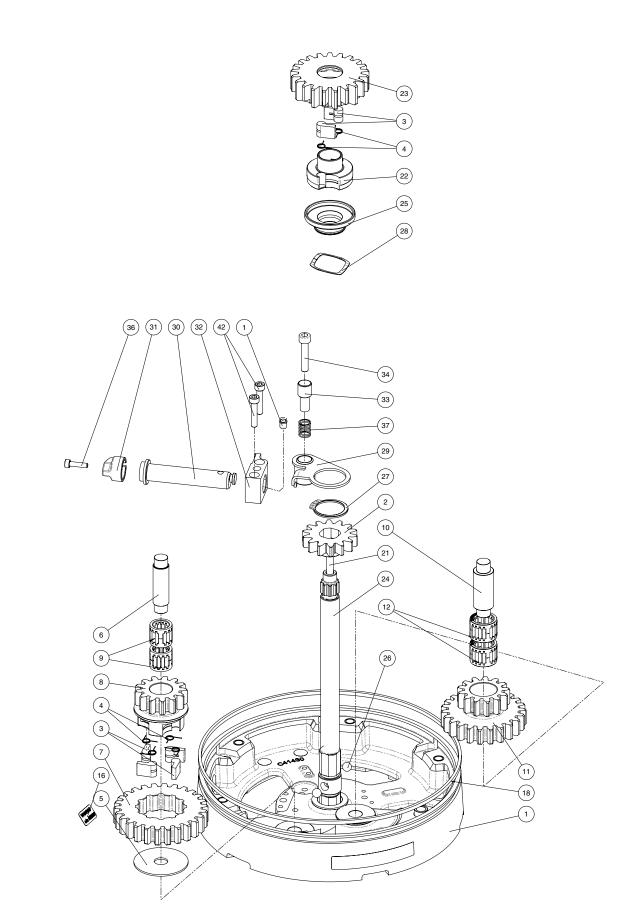
60 Rewind STA, STC, STCW, STBBB, STCCC EL Winch





Exploded view 2/2

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



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Parts List

60 Rewind[™] STA EL Winch

A = drum in anodised aluminium

Pos.	Q.ty	Code	Description	Pos.	Q.ty	Code	Description
1	1	A96575800	Assy Base W60 RW	26	2	M0614103	Ball 5-16" inox
	4	0.470000004	Base W60RW Heli-coil M8x10 Contring hyperion (112	27	1	M0616603	Seeger Ring UNI 7435:1975 - Ø28 mat. 17-7 Ph
	1	S476030004 S4130900A7	Centering bushing Ø12 Bushing Ø22xØ25x8.5	28	1	M0630802	SMALLEY RING SSR0137-S17
	2	S415580085	Bushing Ø12xØ35x9	29	1	A76575600	Command x W60 Rewind
	1	M6009463	Spring loaded ball plunger Ø6 Winch Product Sticker**	30	1	A96575700	Assy knob W60 Rewind Knob W60 Rewind
2	1	S657550004	Gear Z14 W60RW		1	S419190004	Heli-coil M4x8 Pin for knob
3	6	S000080003	Pawl Ø8*		1	S419190004 S419200041	Bushing Ø6.5xØ4x3
4	6	S000380001	Pawl Spring Ø8*	31	1	S497400180	Knob Rewind
5	1	S278170002	Washer Ø12.5xØ48x1.5	32	1	S657590080	Switch Support W60RW
6	1	S281010004	Pin for gear	33	1	S416530004	Pin for switch
7	1	S414420041	Ratchet Gear Z26xN4	34	1	M0624203	Screw M6x30
8	1	S414410004	Pawls Carrier Gear Z13 N4	35	1	A94165200	Assy socket Rewind
9	2	A72821800	Roller Bearing Ø14xØ20x18			7101100200	Socket Handle
10	1	S416030004	Gear Pin Ø12xØ18x52,5			S414940085	Washer Ø25xØ15x4
11	1	S414480004	Idler and Pinion Z23/Z13 W60		1	S414930003 M0679797	Nut Screw for Disconnect Rod O ring RC 2025 series
12	2	A74162300	Roll bearing Ø24xØ18x18	36	1	M0673737 M0624103	Screw M4x16 UNI5931
13	1	A94143100	Assy Housing Winch 60.2	37	1	S418590001	Spring Ø10.67x12.7
			Housing W60 Heli-coil M6x9	38	1	S657620052	Spacer for stripper arm support W60 Rew
	2	S415580085	Bushing Ø12xØ35x9	39	4	M0623103	Screw M6x40 TC DIN84 A4
			Support Bushing W60	40	4	M0601703	Screw M6x25 UNI 5931
	1	S4130900A7	Bushing Ø22xØ25x8.5	41	3	M6007103	Screw M6x50 UNI6107
14	6	M0606303	Screw M8x25 UNI 5931	42	2	M0627602	SCREW M5x25 TCCE U5931 D912 A2
15	3	A74145000	Roller Bearing Ø95xØ107x26	43	1	A96574900	Assy jaws Winch 60
16			Winch Serial Number Sticker	10	1	130014300	Upper Jaw W60
17	1	S4144300A0	Stripper Arm Housing W60/70				Lower Jaw W60RW
18	1	S281700097	Red line		8	S385970001 S657610052	SPRING Tapered spacer for W60RW drum
19	1	S6574800B1	Cover 2 Speed W60 REWIND		1	S665780080	Spacer ring Winch 60 Rewind
20	1	A96575000	Assembly Kit drum Winch 60 STA Rewind Drum Assembly W60 RW	44	1	A96574600	Assy stripper arm Stripper arm W60 Rewind
	50	M0610280	Ball 5/16"		1	S657470019	Peeler W60 Rewind
21	1	S657540002	Disconnect rod 60 Rewind			S416570001	Spring stripper arm W46 Rewind
22	1	S657530004	Pawls carrier Ø8xN2		1	S416580041	Bushing
23	1	S657520041	Gear Z21		2	M0619003 S419170080	Screw M5x20 UNI 6109 Slider
24	1	S657510004	Main shaft W60 Rewind		1		
25	1	S416260041	Disconnect flange				

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

**Winch product sticker



60 Rewind ™ Radial Winch

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60 Rewind[™] STC EL Winch

C = drum in chrome bronze

Pos.	Q.ty	Code	Description	Pos.	Q.ty	Code	Description
1	1	A96575800	Assy Base W60 RW	26	2	M0614103	Ball 5-16" inox
		0.47000000.4	Base W60RW Heli-coil M8x10	27	1	M0616603	Seeger Ring UNI 7435:1975 - Ø28 mat. 17-7 Ph
	1	S476030004 S4130900A7	Centering bushing Ø12 Bushing Ø22xØ25x8.5	28	1	M0630802	SMALLEY RING SSR0137-S17
	2	S415580085	Bushing Ø12xØ35x9	29	1	A76575600	Command x W60 Rewind
	1	M6009463	Spring loaded ball plunger Ø6 Winch Product Sticker**	30	1	A96575700	Assy knob W60 Rewind Knob W60 Rewind
2	1	S657550004	Gear Z14 W60RW		4	C410100004	Heli-coil M4x8 Pin for knob
3	6	S000080003	Pawl Ø8*		1	S419190004 S419200041	Bushing Ø6.5xØ4x3
4	6	S000380001	Pawl Spring Ø8*	31	1	S497400180	Knob Rewind
5	1	S278170002	Washer Ø12.5xØ48x1.5	32	1	S657590080	Switch Support W60RW
6	1	S281010004	Pin for gear	33	1	S416530004	Pin for switch
7	1	S414420041	Ratchet Gear Z26xN4	34	1	M0624203	Screw M6x30
8	1	S414410004	Pawls Carrier Gear Z13 N4	35	1	A94165200	Assy socket Rewind
9	2	A72821800	Roller Bearing Ø14xØ20x18			//04100200	Šocket Handle
10	1	S416030004	Gear Pin Ø12xØ18x52,5		1	S414940085	Washer Ø25xØ15x4
11	1	S414480004	Idler and Pinion Z23/Z13 W60		1	S414930003 M0679797	Nut Screw for Disconnect Rod O ring RC 2025 series
12	2	A74162300	Roll bearing Ø24xØ18x18	36	1	M0673737 M0624103	Screw M4x16 UNI5931
13	1	A94143100	Assy Housing Winch 60.2	37	1	S418590001	Spring Ø10.67x12.7
			Housing W60 Heli-coil M6x9	38	1	S657620052	Spacer for stripper arm support W60 Rew
	2	S415580085	Bushing Ø12xØ35x9	39	4	M0623103	Screw M6x40 TC DIN84 A4
			Support Bushing W60	40	4	M0601703	Screw M6x25 UNI 5931
	1	S4130900A7	Bushing Ø22xØ25x8.5	41	3	M6007103	Screw M6x50 UNI6107
14	6	M0606303	Screw M8x25 UNI 5931	42	2	M0607103	SCREW M5x25 TCCE U5931 D912 A2
15	3	A74145000	Roller Bearing Ø95xØ107x26	43	1	A96990500	Assy jaws Winch 60STC Rewind
16			Winch Serial Number Sticker	70		A90990000	Upper Jaw W60
17	1	S4144300A0	Stripper Arm Housing W60/70				Lower Jaw W60RW
18	1	S281700097	Red line		8	S385970001	SPRING Tapered spacer for W60RW drum
19	1	S6574800B1	Cover 2 Speed W60 REWIND			S657610041 S665780080	Spacer ring Winch 60 Rewind
20	1	A96645700	Kit Assembly drum Winch 60 STC Rewind Drum Winch 60 Rewind	44	1	A96574600	Assy stripper arm Stripper arm W60 Rewind
	50	M0610280	Ball 5/16"		1	S657470019	Peeler W60 Rewind
21	1	S657540002	Disconnect rod 60 Rewind		1	S416570001	Spring stripper arm W46 Rewind
22	1	S657530004	Pawls carrier Ø8xN2		1	S416580041	Bushing
23	1	S657520041	Gear Z21		2	M0619003 S419170080	Screw M5x20 UNI 6109 Slider
24	1	S657510004	Main shaft W60 Rewind		'		
25	1	S416260041	Disconnect flange				

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

**Winch product sticker





60 Rewind[™] STCW EL Winch

CW = chrome/white

Pos.	Q.ty	Code	Description	Pos.	Q.ty	Code	Description
1	1	A96760800W	Base Assy W60 REWIND RAL9003	26	2	M0614103	Ball 5-16" inox
		0070000000	Base W60RW Heli-coil M8x10 Cliid WC0 PEN/IND BAL0000	27	1	M0616603	Seeger Ring UNI 7435:1975 - Ø28 mat. 17-7 Ph
	1	S6760800A5W S476030004	Skirt W60 REWIND RAL9003 Centering bushing Ø12	28	1	M0630802	SMALLEY RING SSR0137-S17
	1	S4130900A7	Bushing Ø22xØ25x8.5	29	1	A76575600	Command x W60 Rewind
	2 1	S415580085 M6009463	Bushing Ø12xØ35x9 Spring loaded ball plunger Ø6 Winch Product Sticker**	30	1	A96575700	Assy knob W60 Rewind Knob W60 Rewind Heli-coil M4x8
2	1	S657550004	Gear Z14 W60RW			S419190004	Pin for knob Pushing GG Ev@4v2
3	6	S000080003	Pawl Ø8*	31		S419200041	Bushing Ø6.5xØ4x3
4	6	S000380001	Pawl Spring Ø8*		1	S497400180	Knob Rewind
5	1	S278170002	Washer Ø12.5xØ48x1.5	32	1	S657590080	Switch Support W60RW
6	1	S281010004	Pin for gear	33	1	S416530004	Pin for switch
7	1	S414420041	Ratchet Gear Z26xN4	34	1	M0624203	Screw M6x30
8	1	S414410004	Pawls Carrier Gear Z13 N4	35	1	A94165200	Assy socket Rewind Socket Handle
9	2	A72821800	Roller Bearing Ø14xØ20x18		1	S414940085	Washer Ø25xØ15x4
10	1	S416030004	Gear Pin Ø12xØ18x52,5		1	S414930003	Nut Screw for Disconnect Rod
11	1	S414480004	Idler and Pinion Z23/Z13 W60		1	M0679797	O ring RC 2025 series
12	2	A74162300	Roll bearing Ø24xØ18x18	36	1	M0624103	Screw M4x16 UNI5931
13	1	A94143100	Assy Housing Winch 60.2	37	1	S418590001	Spring Ø10.67x12.7
			Housing W60	38	1	S657620052	Spacer for stripper arm support W60 Rew
	2	S415580085	Heli-coil M6x9 Bushing Ø12xØ35x9	39	4	M0623103	Screw M6x40 TC DIN84 A4
	2	041000000	Support Bushing W60	40	4	M0601703	Screw M6x25 UNI 5931
	1	S4130900A7	Bushing Ø22xØ25x8.5	41	3	M6007103	Screw M6x50 UNI6107
14	6	M0606303	Screw M8x25 UNI 5931	42	2	M0627602	SCREW M5x25 TCCE U5931 D912 A2
15	3	A74145000	Roller Bearing Ø95xØ107x26	43	1	A96574900W	Assy jaws Winch 60 STCW Rewind
16			Winch Serial Number Sticker				Upper Jaw W60 RAL 9003 Lower Jaw W60RW
17	1	S4144300A0	Stripper Arm Housing W60/70		8	S385970001	SPRING
18	-	-	-		1	S657610041	Tapered spacer for W60RW C
19	1	S6574800B1W	Cover 2 Speed W60 REWIND RAL9003		1	S665780080	Spacer ring Winch 60 Rewind
20	1	A96645700	Kit Assembly drum Winch 60 STC Rewind Drum Winch 60 Rewind	44		A96574600	Assy stripper arm Stripper arm W60 Rewind
	50	M0610280	Ball 5/16"		1	S657470019 S416570001	Peeler W60 Rewind Spring stripper arm W46 Rewind
21	1	S657540002	Disconnect rod 60 Rewind			S416570001 S416580041	Bushing
22	1	S657530004	Pawls carrier Ø8xN2		2	M0619003	Screw M5x20 UNI 6109
23	1	S657520041	Gear Z21		1	S419170080	Slider
24	1	S657510004	Main shaft W60 Rewind				
25	1	S416260041	Disconnect flange				

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

**Winch product sticker





60 Rewind[™] STBBB EL Winch

BBB = all bronze

Pos.	Q.ty	Code	Description	Pos.	Q.ty	Code	Description
1	1	A96934300	Assy Base W60STBBB Rewind	26	2	M0614103	Ball 5-16" inox
	4	0000400040	Base W60RW BBB-CCC Heli-coil M8x10 Cover for base W60 REW BBB	27	1	M0616603	Seeger Ring UNI 7435:1975 - Ø28 mat. 17-7 Ph
	1 1	S693430043 S476030004	Cover for base woo REW BBB Centering bushing Ø12	28	1	M0630802	SMALLEY RING SSR0137-S17
	1	S4130900A7	Bushing Ø22xØ25x8.5	29	1	A76575600	Command x W60 Rewind
	2 1	S415580085 M6009463	Bushing Ø12xØ35x9 Spring loaded ball plunger Ø6 Winch Product Sticker**	30	1	A96575700	Assy knob W60 Rewind Knob W60 Rewind Heli-coil M4x8
2	1	S657550004	Gear Z14 W60RW			S419190004	Pin for knob Punhing Q6 EvQ(4v2
3	6	S000080003	Pawl Ø8*	31	- 1	S419200041	Bushing Ø6.5xØ4x3 Knob Rewind
4	6	S000380001	Pawl Spring Ø8*	31	1	S497400180	
5	1	S278170002	Washer Ø12.5xØ48x1.5		1	S657590080	Switch Support W60RW
6	1	S281010004	Pin for gear	33	1	S416530004	Pin for switch
7	1	S414420041	Ratchet Gear Z26xN4	34	1	M0624203	Screw M6x30
8	1	S414410004	Pawls Carrier Gear Z13 N4	35	1	A94165200	Assy socket Rewind Socket Handle
9	2	A72821800	Roller Bearing Ø14xØ20x18		1	S414940085	Washer Ø25xØ15x4
10	1	S416030004	Gear Pin Ø12xØ18x52,5		1	S414930003	Nut Screw for Disconnect Rod
11	1	S414480004	Idler and Pinion Z23/Z13 W60		1	M0679797	O ring RC 2025 series
12	2	A74162300	Roll bearing Ø24xØ18x18	36	1	M0624103	Screw M4x16 UNI5931
13	1	A94143100	Assy Housing Winch 60.2	37	1	S418590001	Spring Ø10.67x12.7
			Housing W60	38	1	S657620052	Spacer for stripper arm support W60 Rew
	2	S415580085	Heli-coil M6x9 Bushing Ø12xØ35x9	39	4	M0623103	Screw M6x40 TC DIN84 A4
	2	341000000	Support Bushing W60	40	4	M0601703	Screw M6x25 UNI 5931
	1	S4130900A7	Bushing Ø22xØ25x8.5	41	3	M6007103	Screw M6x50 UNI6107
14	6	M0606303	Screw M8x25 UNI 5931	42	2	M0627602	SCREW M5x25 TCCE U5931 D912 A2
15	3	A74145000	Roller Bearing Ø95xØ107x26	43	1	A96990600	Assy jaws Winch 60STBBB Rewind
16			Winch Serial Number Sticker				Upper Jaw W60 Lower Jaw W60RW BBB
17	1	S4144300A0	Stripper Arm Housing W60/70		8	S385970001	SPRING
18	1	S281700097	Red line		1	S693490043	Tapered spacer for W60RW drum BBB
19	1	A76934800	Cover W60 RW BBB		1	S665780080	Spacer ring Winch 60 Rewind
20	1	A96934400	Kit Assembly drum Winch 60 STBBB Rewind Drum Assembly W60STBBB RW	44	1	A76934000	Stripper arm Winch 60 Rewind BBB Stripper arm Winch 60 Rewind BBB
	50	M0610280	Ball 5/16"		1	S6933900F0 S416570001	Peeler Winch 60 Rewind BBB Spring stripper arm W46 Rewind
21	1	S657540002	Disconnect rod 60 Rewind			S416570001 S416580041	Bushing
22	1	S657530004	Pawls carrier Ø8xN2		1	S419170080	Slider
23	1	S657520041	Gear Z21		2	M0619003	Screw M5x20 UNI 6109
24	1	S657510004	Main shaft W60 Rewind				
25	1	S416260041	Disconnect flange				

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

**Winch product sticker





60 Rewind[™] STCCC EL Winch

CCC = All-Chrome bronze

Pos.	Q.ty	Code	Description	Pos.	Q.ty	Code	Description
1	1	A96934500	Base Assy W60STCCC REWIND	26	2	M0614103	Ball 5-16" inox
		0000 (500 (0	Base W60RW BBB-CCC Heli-coil M8x10	27	1	M0616603	Seeger Ring UNI 7435:1975 - Ø28 mat. 17-7 Ph
	1	S693450043 S476030004	Cover for base W60 REW CCC Centering bushing Ø12	28	1	M0630802	SMALLEY RING SSR0137-S17
	1	S4130900A7	Bushing Ø22xØ25x8.5	29	1	A76575600	Command x W60 Rewind
	2 1	S415580085 M6009463	Bushing Ø12xØ35x9 Spring loaded ball plunger Ø6 Winch Product Sticker**	30	1	A96575700	Assy knob W60 Rewind Knob W60 Rewind Heli-coil M4x8
2	1	S657550004	Gear Z14 W60RW		1	S419190004	Pin for knob
3	6	S000080003	Pawl Ø8*	01	-	S419200041	Bushing Ø6.5xØ4x3
4	6	S000380001	Pawl Spring Ø8*	31	1	S497400180	Knob Rewind
5	1	S278170002	Washer Ø12.5xØ48x1.5	32	1	S657590080	Switch Support W60RW
6	1	S281010004	Pin for gear	33	1	S416530004	Pin for switch
7	1	S414420041	Ratchet Gear Z26xN4	34	1	M0624203	Screw M6x30
8	1	S414410004	Pawls Carrier Gear Z13 N4	35	1	A94165200	Assy socket Rewind Socket Handle
9	2	A72821800	Roller Bearing Ø14xØ20x18		1	S414940085	Washer Ø25xØ15x4
10	1	S416030004	Gear Pin Ø12xØ18x52,5		1	S414930003	Nut Screw for Disconnect Rod
11	1	S414480004	Idler and Pinion Z23/Z13 W60		1	M0679797	O ring RC 2025 series
12	2	A74162300	Roll bearing Ø24xØ18x18	36	1	M0624103	Screw M4x16 UNI5931
13	1	A94143100	Assy Housing Winch 60.2	37	1	S418590001	Spring Ø10.67x12.7
			Housing W60	38	1	S657620052	Spacer for stripper arm support W60 Rew
	2	S415580085	Heli-coil M6x9 Bushing Ø12xØ35x9	39	4	M0623103	Screw M6x40 TC DIN84 A4
	2	341000000	Support Bushing W60	40	4	M0601703	Screw M6x25 UNI 5931
	1	S4130900A7	Bushing Ø22xØ25x8.5	41	3	M6007103	Screw M6x50 UNI6107
14	6	M0606303	Screw M8x25 UNI 5931	42	2	M0627602	SCREW M5x25 TCCE U5931 D912 A2
15	3	A74145000	Roller Bearing Ø95xØ107x26	43	1	A96934600	Assy jaws Winch 60 STCCC Rewind
16			Winch Serial Number Sticker				Upper Jaw W60 RAL 9003 Lower Jaw W60RW CCC
17	1	S4144300A0	Stripper Arm Housing W60/70		8	S385970001	SPRING
18	1	S281700097	Red line		1	S657610041	Tapered spacer for W60RW C
19	1	A76934700	Assy cover W60 RW CCC		1	S665780080	Spacer ring Winch 60 Rewind
20	1	A96645700	Kit Assembly drum Winch 60 STC Rewind Drum Winch 60 Rewind	44	1	A96574600	Assy stripper arm Stripper arm W60 Rewind
	50	M0610280	Ball 5/16"			S657470019 S416570001	Peeler W60 Rewind Spring stripper arm W46 Rewind
21	1	S657540002	Disconnect rod 60 Rewind			S416580041	Bushing
22	1	S657530004	Pawls carrier Ø8xN2		2	M0619003	Screw M5x20 UNI 6109
23	1	S657520041	Gear Z21		1	S419170080	Slider
24	1	S657510004	Main shaft W60 Rewind				
25	1	S416260041	Disconnect flange				

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

**Winch product sticker



Horizontal electric motor 12V/24V

