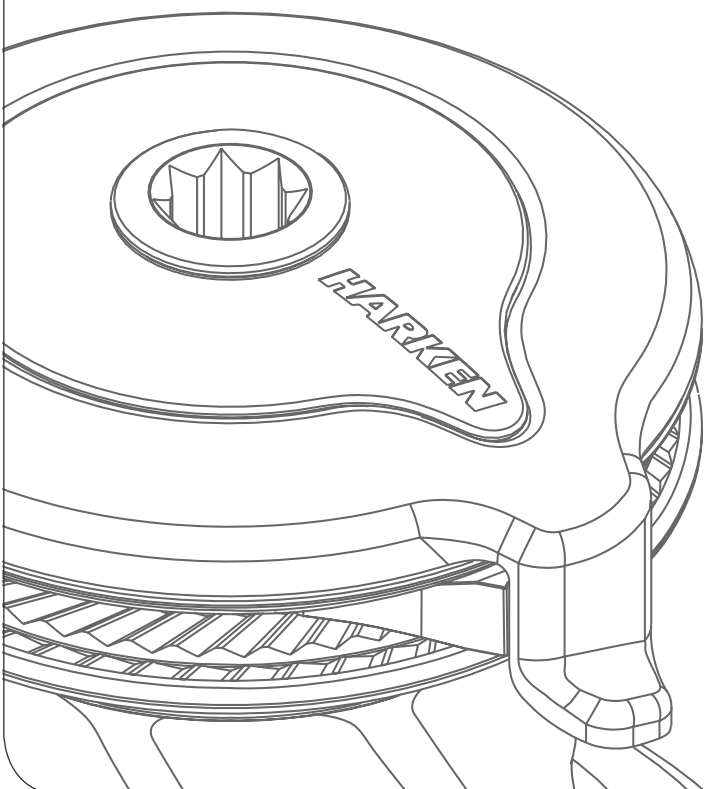


Installation and Maintenance Manual

MRU-03

Radial UniPower



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**
9,75 : 1	100 : 1

*Socket input

**Motor input

The theoretical power ratio does not take friction into account.

Performance data

UniPower Winch

	motor nominal power 700 W	motor nominal power 900 W
	12 V (700 W)	24 V (900 W)
line speed***	25 m/min - 82 ft/min	25 m/min - 82 ft/min
max load	900 Kg - 1984 lb.	900 Kg - 1984 lb.

***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
900 Unipower Winch	700	900	195	110

Weight

	A	C/CW	BBB/CCC
weight	12 Kg - 26,50 lb.	14,50 Kg - 32 lb.	15,70 Kg - 34,61 lb.

Versions:

A = drum in anodised aluminium

C = drum in chrome bronze

CW = chrome/white

BBB = all bronze

CCC = All-Chrome bronze

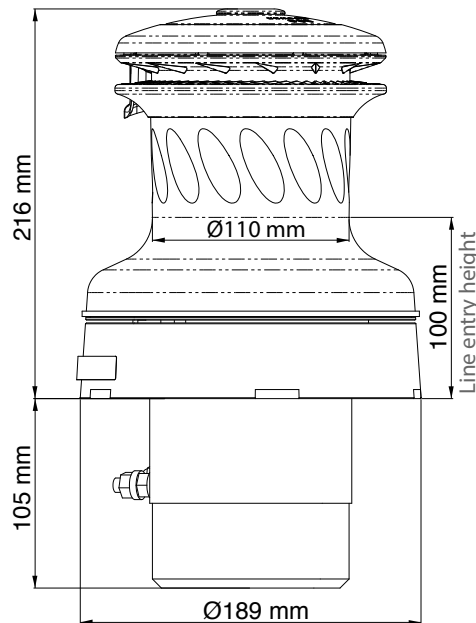
Maximum working load



WARNING!

The maximum working load (MWL) for the UniPower Radial Winch is 900 Kg (1984 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

UniPower Radial Winch

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!**

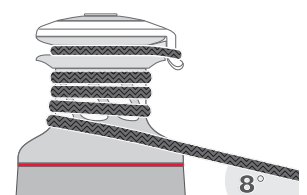
Incorrect installation of the winch may cause severe injury or death. Consult the yard that built the boat in the case of doubt over the correct positioning of the winch.

**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.



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

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

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



2. Slide off the assy socket n°31 and the cover n°13



3. Unscrew the three screws n°25 (4Nm/35 in-lb) and remove the self-tailing arm n°8 by rotating and lifting it.



4. Lift off the drum n°27

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

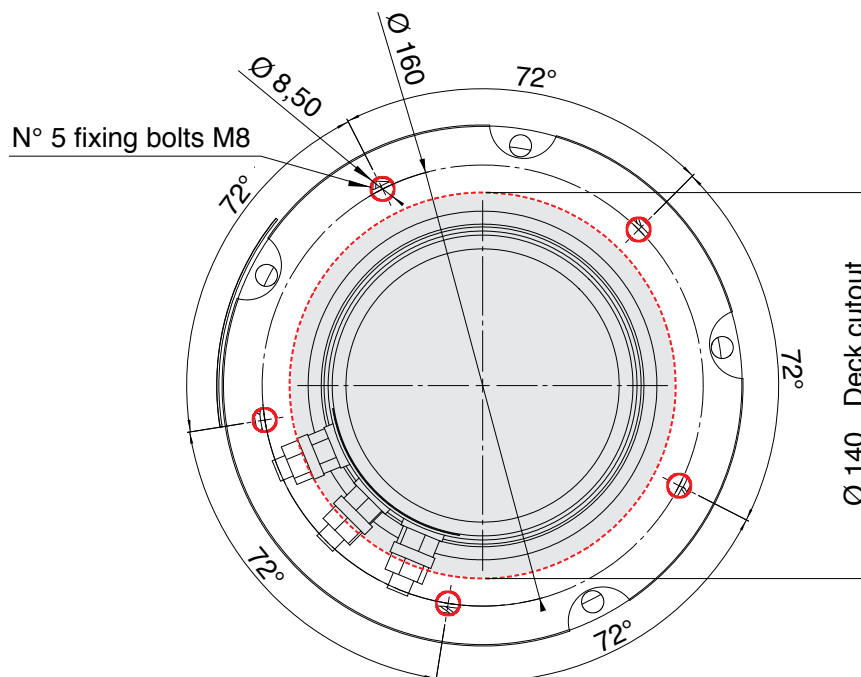
NOTICE

Before drilling the deck, check the space available below deck for the motor.

- A.** Locate the point where you have decided to place the winch. Drill the deck with a $\varnothing 140$ mm hole, insert the motor through the hole, position the base of the winch on the deck and mark the position of the holes.

Winch can be mounted in any direction without concern for drive gear location.

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 8.5 mm diameter holes and the 140 mm hole.
C. Bolt the base of the winch to the deck using five socket headed M8 (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 **Installation 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 electric wiring

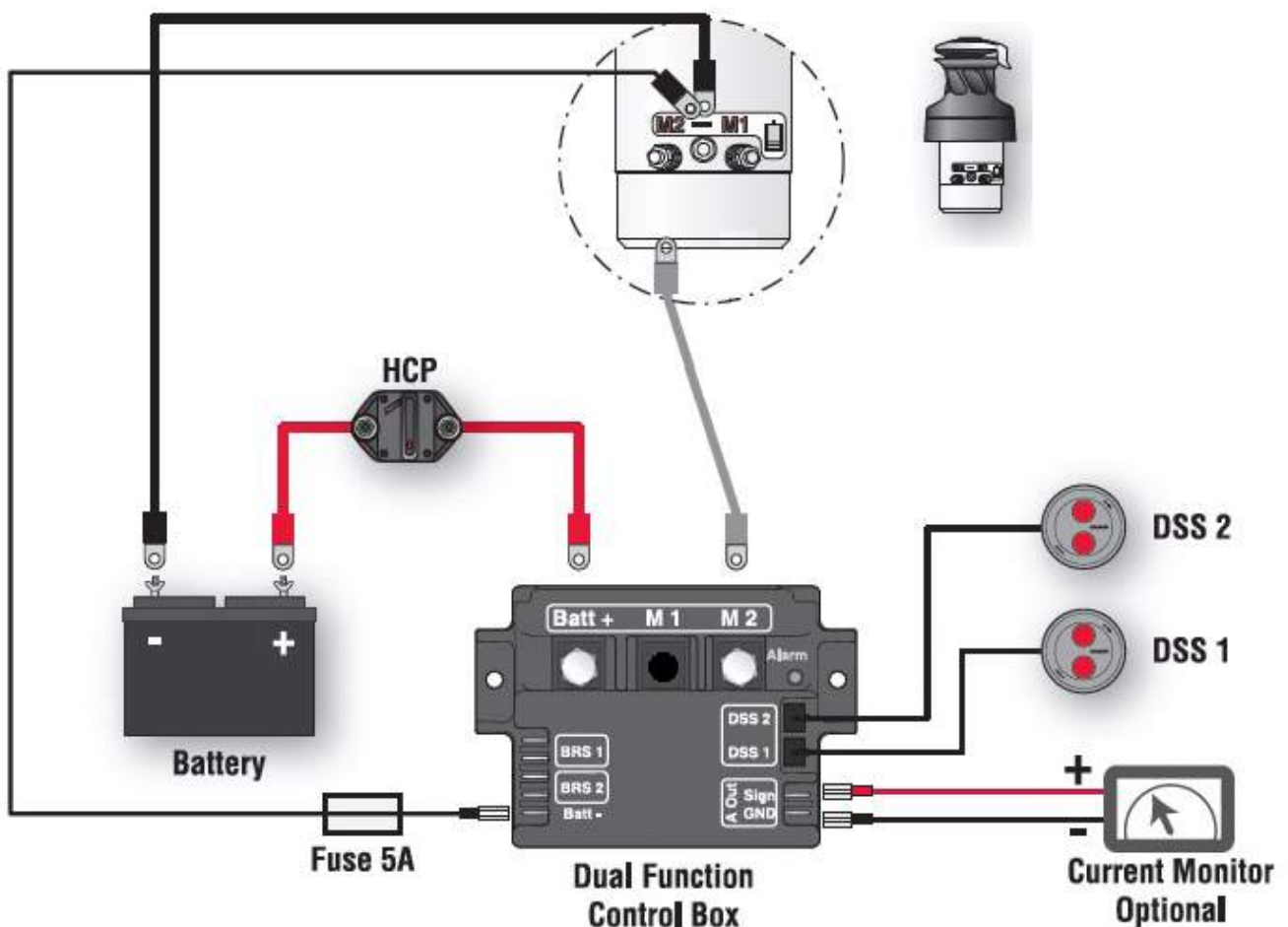
Electric wiring diagrams

Tools needed

Two number thirteen wrenches

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

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 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	15m - 20 m mm ²
UniPower	12 V	2	32	0	50	00	70	000	95
UniPower	24 V	5	16	3	25	2	35	0	50

After winch is assembled and before sailing, test the powered winch functioning: press the switch and check that the drum turns.

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 six 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 **Installation procedure** as shown in the paragraph on winch installation and then do the following:



5. Unscrew the 6 hex screws n°18 (20Nm/177 in-lb)



6. Slide off the gear carrier n°21. Pay attention to rollers in the gear carrier.



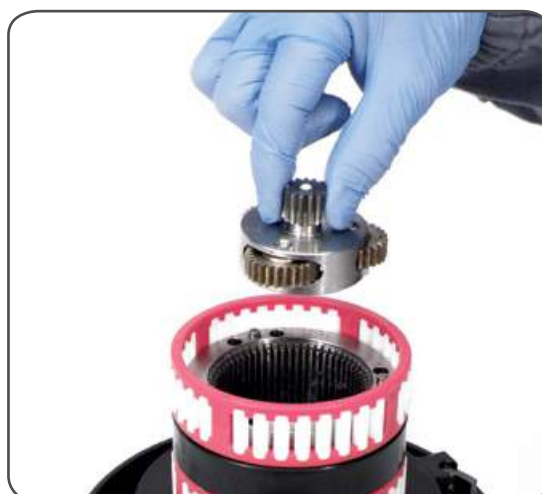
7. Slide out the pawls carrier n°20



8. Lift off the gear n°9



9. Remove the second planetary assy n°24 and remove flange n°11. Pay attention to the o-ring n°10 in the ring gear.



10. Slide out the first planetary assy n°23, the ring gear n°4, the o-ring n°10 and the pinion n°2.

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



I. Unscrew the 4 screws n°14
($\approx 4\text{Nm}/35\text{ in-lb}$)



II. Remove the jaws n°28

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 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.

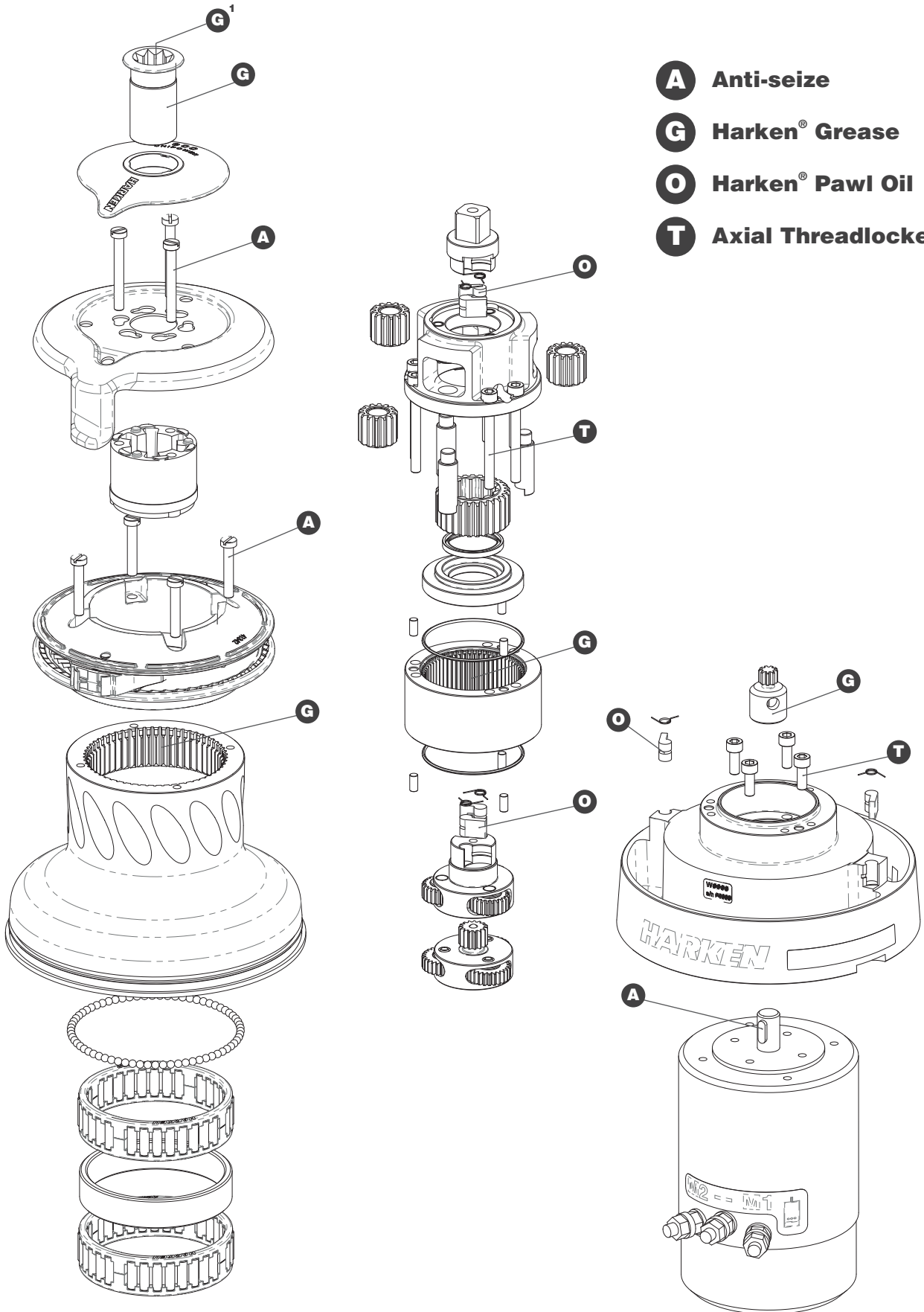
Replace worn or damaged components.

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



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

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.

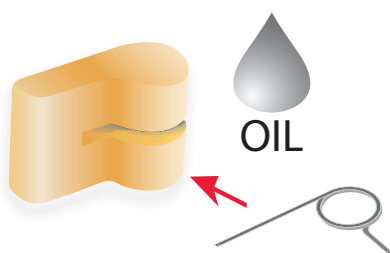
To tighten bolts, use the torque indicated in the disassembly procedure.



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

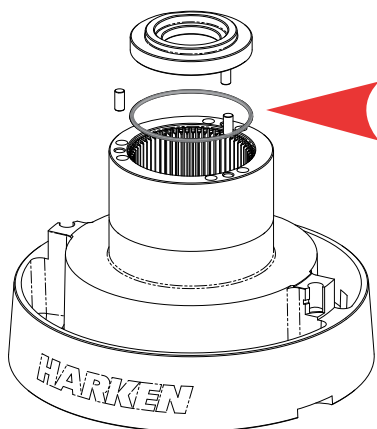


If the jaws have been disassembled, insert peeler between the two jaws, taking care that the letters TOP on the peeler are facing upwards.



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 assembly the winch check the correct position of the o-ring n°10 between the ring gear n°4 and the flange n°11 and the position of rollers n°5 between the ring gear n°4 and the gear carrier n°21.

Check the correct position of the o-ring n°10 between the ring gear n°4 and the assy base n°3 and the position of the rollers n°5 between the ring gear n°4 and the assy base n°3.

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

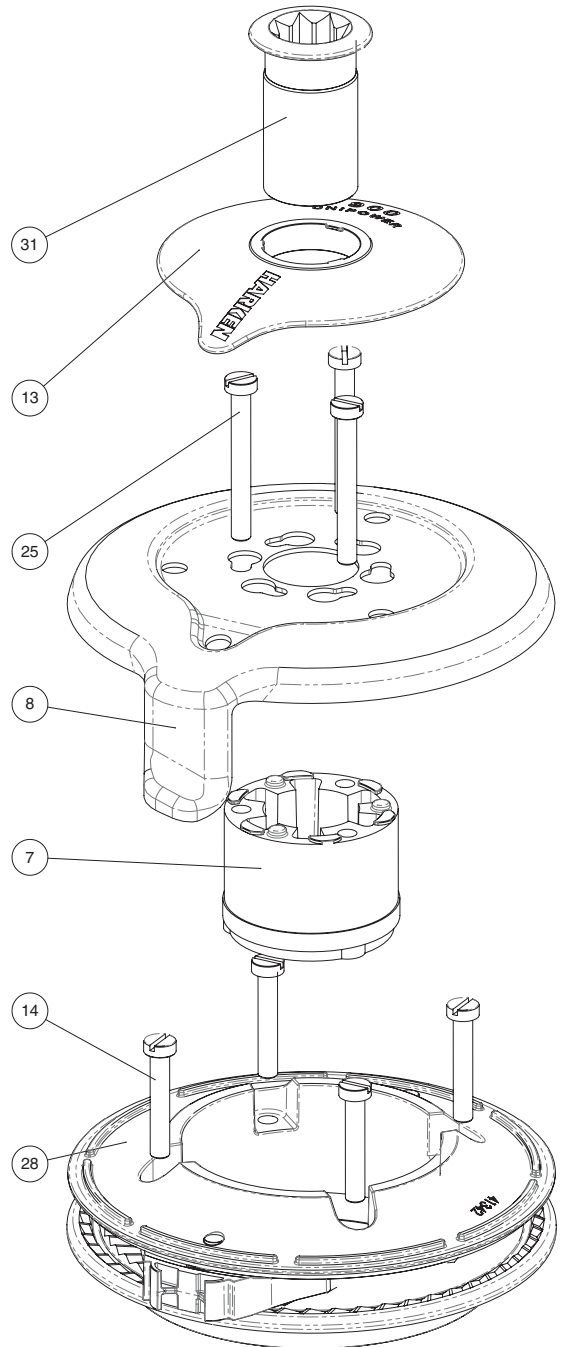
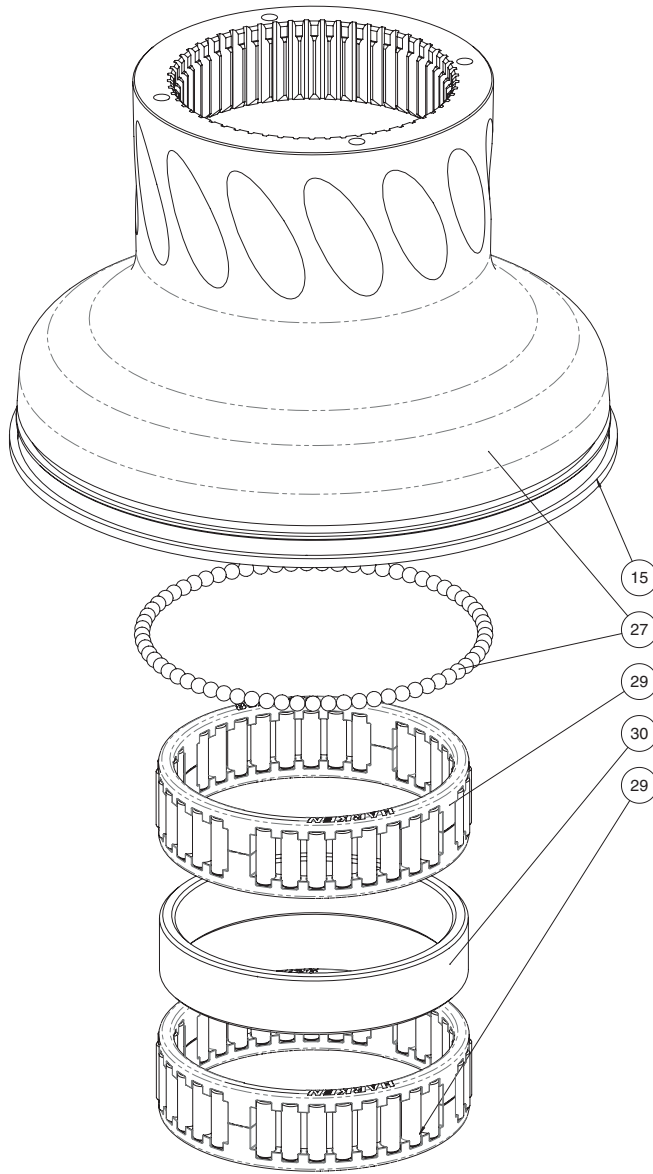
Harken®, Inc.

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

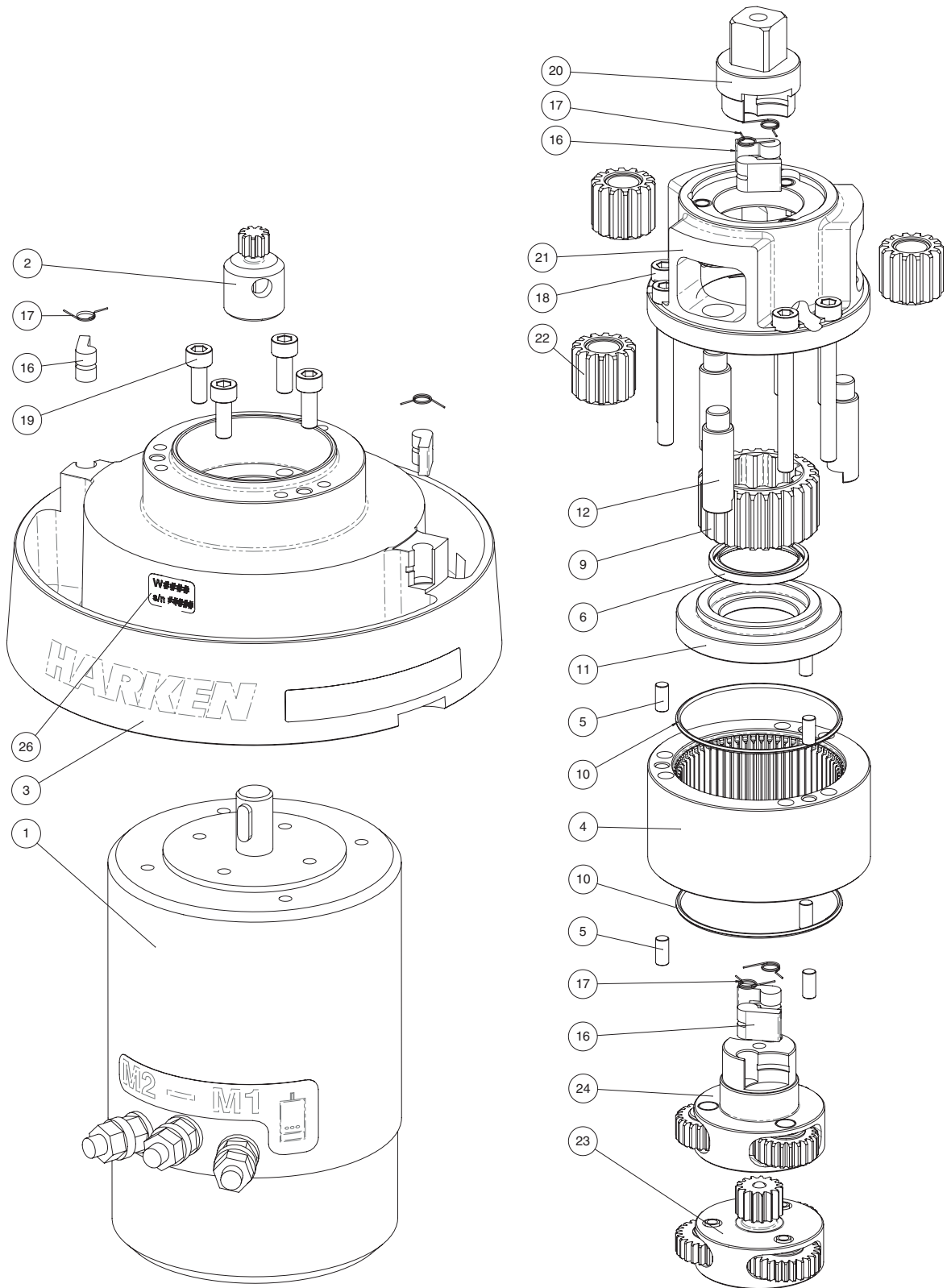
- **Tech Service**
Email: technicalservice@harken.com
- **Customer Service**
Tel: (262) 691-3320
Email: customerservice@harken.com

Exploded view

Winch Radial UniPower 900 A, C, CW, BBB, CCC



Winch Radial UniPower 900 A, C, CW, BBB, CCC



Parts List

UniPower 900 A

A = drum in anodised aluminium

Pos.	Q.ty	Code	Description	Pos.	Q.ty	Code	Description
1	1	A94953300	Kit Motor 0,7kW 12V Unipower 900	22	3	A94903900	Gear assembly Z=10
	1	A96508600	Kit Motor 0,9kW 24V Unipower 900		1	S490390004	Gear Z=14
			<i>Electric motor</i>		1	M6017594	Bushing Igus GFM-121418-20
	1	M6014206	<i>Polarity motor sticker</i>	23	1	A94909800	First planetary assy
			<i>Key DIN 6885 5x5x15</i>				<i>Gear Carrier</i>
2	1	S490310004	Pinion Z=9				<i>Gear z=26</i>
3	1	A94903300	Assy base Unipower 900				<i>Ball 3/16"</i>
			<i>Support Unipower 900</i>				<i>Pin Ø6</i>
			<i>Winch Product Sticker**</i>				<i>Bushing Igus XSM-0608-10</i>
4	1	S490340004	Ring gear Z=63	24	1	A94910000	Second planetary assy
5	6	S450660003	Roller Ø5x10.5				<i>Pawl Carrier</i>
6	1	M0648397	Seal Ø30xØ38x4 NBR				<i>Gear Z=23</i>
7	1	S4129400A0	Stripper arm support				<i>Pin Ø8</i>
8	1	S413440019	Stripper arm W50				<i>Bushing Igus XSM 0810-12</i>
9	1	S490780004	Gear Z=27	25	3	M6007103	Screw M6x50 UNI6107
10	2	M6004597	O Ring 2237	26			Winch Serial Number Sticker
11	1	S490800080	Flange	27	1	A94904200	Assy Drum Unipower
12	3	S490810004	Pin Ø12		69	M0619580	<i>Drum Unipower 900</i>
13	1	S4908800A5	Cover Unipower 900				<i>Ball 3/16"</i>
14	4	M0601803	Screw UNI EN ISO 1207:1996 - M6x35 - A4	28	1	A94907700	Assy Jaws Unipower 900
15	1	S281690097	Red line		1	S414280080	<i>Lower jaw W50</i>
16	6	S000080003	Pawl Ø8*		4	S385970001	<i>Upper jaw Unipower 900</i>
17	6	S000380001	Pawl Spring Ø8*				<i>Peeler W46 - 50</i>
18	6	M0606103	Screw M6x60 UNI5931				<i>SPRING</i>
19	4	M0635103	Socket head screw M6x16 UNI 5931	29	2	A74135100	Bearing Ø85xØ97x26
20	1	S490960004	Pawls carrier	30	1	S413520080	Spacer
21	1	A94904100	Gear carrier	31	1	A94136400	Assy Socket W20-80
			<i>Gear carrier</i>				<i>Socket Handle W20/80</i>
			<i>Heli-coil M6x9</i>		1	S415130085	<i>Washer Ø7.7xØ25x5.8</i>
	3	S414890080	<i>Bushing Ø9xØ11x7</i>		1	M0614303	<i>Screw M8x20 UNI 6109</i>

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

**Winch product sticker



UniPower 900 C

C = drum in chrome bronze

Pos.	Q.ty	Code	Description	Pos.	Q.ty	Code	Description	
1	1	A94953300	Kit Motor 0,7kW 12V Unipower 900	22	3	A94903900	Gear assembly Z=10	
	1	A96508600	Kit Motor 0,9kW 24V Unipower 900 <i>Electric motor</i>		1	S490390004	<i>Gear Z=14</i>	
	1	M6014206	<i>Polarity motor sticker</i> <i>Key DIN 6885 5x5x15</i>		1	M6017594	<i>Bushing Iigus GFM-121418-20</i>	
2	1	S490310004	Pinion Z=9	23	1	A94909800	First planetary assy <i>Gear Carrier</i> <i>Gear z=26</i> <i>Ball 3/16"</i> <i>Pin Ø6</i> <i>Bushing Iigus XSM-0608-10</i>	
3	1	A94903300	Assy base Unipower 900 <i>Support Unipower 900</i> <i>Winch Product Sticker**</i>		24	1	A94910000	Second planetary assy <i>Pawl Carrier</i> <i>Gear Z=23</i> <i>Pin Ø8</i> <i>Bushing Iigus XSM 0810-12</i>
4	1	S490340004	Ring gear Z=63			25	3	M6007103
5	6	S450660003	Roller Ø5x10.5	26				Winch Serial Number Sticker
6	1	M0648397	Seal Ø30xØ38x4 NBR	27	1		A94946100	Assy Unipower 900 C Drum <i>Drum Unipower 900 C</i> <i>Ball 3/16"</i>
7	1	S4129400A0	Stripper arm support		28	69	M0619580	
8	1	S413440019	Stripper Arm W50			29	1	A94907700
9	1	S490780004	Gear Z=27	30			2	A74135100
10	2	M6004597	O Ring 2237		31		1	S413520080
11	1	S490800080	Flange			1	A94136400	Assy Socket W20-80 <i>Socket Handle W20/80</i> <i>Washer Ø7.7xØ25x5.8</i> <i>Screw M8x20 UNI 6109</i>
12	3	S490810004	Pin Ø12	1			S415130085	
13	1	S4908800A5	Cover Unipower 900		1		M0614303	
14	4	M0601803	Screw UNI EN ISO 1207:1996 - M6x35 - A4					
15	1	S281690097	Red line					
16	6	S000080003	Pawl Ø8*					
17	6	S000380001	Pawl Spring Ø8*					
18	6	M0606103	Screw M6x60 UNI5931					
19	4	M0635103	Socket head screw M6x16 UNI 5931					
20	1	S490960004	Pawls carrier					
21	1	A94904100	Gear carrier <i>Gear carrier</i> <i>Heli-coil M6x9</i> <i>Bushing Ø9xØ11x7</i>					
	3	S414890080						

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

**Winch product sticker



UniPower 900 CW

CW = chrome/white

Pos.	Q.ty	Code	Description	Pos.	Q.ty	Code	Description	
1	1	A94953300	Kit Motor 0,7kW 12V Unipower 900	22	3	A94903900	Gear assembly Z=10	
	1	A96508600	Kit Motor 0,9kW 24V Unipower 900		1	S490390004	Gear Z=14	
	1	M6014206	Electric motor Polarity motor sticker Key DIN 6885 5x5x15		1	M6017594	Bushing Iigus GFM-121418-20	
2	1	S490310004	Pinion Z=9	23	1	A94909800	First planetary assy Gear Carrier Gear z=26 Ball 3/16" Pin Ø6 Bushing Iigus XSM-0608-10	
3	1	A96726400W	Assy base Unipower 900 RAL9003		24	1	A94910000	Second planetary assy Pawl Carrier Gear Z=23 Pin Ø8 Bushing Iigus XSM 0810-12
	1	S6620800A5W	Support Unipower 900 Skirt Unipower 900 RAL9003 Winch Product Sticker**					
4	1	S490340004	Ring gear Z=63	25	3	M6007103	Screw M6x50 UNI6107	
5	6	S450660003	Roller Ø5x10.5	26			Winch Serial Number Sticker	
6	1	M0648397	Seal Ø30xØ38x4 NBR	27	1	A94946100	Assy Unipower 900 C Drum	
7	1	S4129400A0	Stripper arm support		69	M0619580	Drum Unipower 900 C Ball 3/16"	
8	1	S413440019	Stripper Arm W50	28	1	A94907700W	Assy jaws Unipower 900 RAL9003	
9	1	S490780004	Gear Z=27		1	S414280080W	Lower Jaw W50 RAL9003	
10	2	M6004597	O Ring 2237	4	S385970001	Upper jaw Unipower 900 RAL9003 Peeler W46 - 50 RAL9003 SPRING		
11	1	S490800080	Flange	29	2	A74135100	Bearing Ø85xØ97x26	
12	3	S490810004	Pin Ø12	30	1	S413520080	Spacer	
13	1	S4908800A5W	Cover Unipower 900 RAL9003	31	1	A94136400	Assy Socket W20-80	
14	4	M0601803	Screw UNI EN ISO 1207:1996 - M6x35 - A4		1	S415130085	Socket Handle W20/80	
15	1	S281690097	Red line	1	M0614303	Washer Ø7.7xØ25x5.8 Screw M8x20 UNI 6109		
16	6	S000080003	Pawl Ø8*					
17	6	S000380001	Pawl Spring Ø8*					
18	6	M0606103	Screw M6x60 UNI5931					
19	4	M0635103	Socket head screw M6x16 UNI 5931					
20	1	S490960004	Pawls carrier					
21	1	A94904100	Gear carrier					
	3	S414890080	Gear carrier Heli-coil M6x9 Bushing Ø9xØ11x7					

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

**Winch product sticker



UniPower 900 BBB

BBB = all bronze

Pos.	Q.ty	Code	Description	Pos.	Q.ty	Code	Description			
1	1	A94953300	Kit Motor 0,7kW 12V Unipower 900	22	3	A94903900	Gear assembly Z=10			
	1	A96508600	Kit Motor 0,9kW 24V Unipower 900 <i>Electric motor</i>		1	S490390004	<i>Gear Z=14</i>			
	1	M6014206	<i>Polarity motor sticker</i> <i>Key DIN 6885 5x5x15</i>		1	M6017594	<i>Bushing Iigus GFM-121418-20</i>			
2	1	S490310004	Pinion Z=9	23	1	A94909800	First planetary assy <i>Gear Carrier</i> <i>Gear z=26</i> <i>Ball 3/16"</i> <i>Pin Ø6</i> <i>Bushing Iigus XSM-0608-10</i>			
3	1	A96940600	Assy base Unipower 900 BBB <i>Support UniPower 900 CCC-BBB</i>		24	1	A94910000	Second planetary assy <i>Pawl Carrier</i> <i>Gear Z=23</i> <i>Pin Ø8</i> <i>Bushing Iigus XSM 0810-12</i>		
	1	S694060043	<i>Skirt for base UP900 BBB</i> <i>Winch Product Sticker**</i>							
4	1	S490340004	Ring gear Z=63	25	3	M6007103	Screw M6x50 UNI6107			
5	6	S450660003	Roller Ø5x10.5	26			Winch Serial Number Sticker			
6	1	M0648397	Seal Ø30xØ38x4 NBR	27	1	A96940500	Assy Unipower 900 Drum BBB			
7	1	S4129400A0	Stripper arm support	1	S694050043	<i>Drum Unipower 900 BBB</i>				
8	1	S693340019	Stripper Arm W50 BBB	69	M0619580	<i>Ball 3/16"</i>				
9	1	S490780004	Gear Z=27	28	1	A96998100	Assy jaws UniPower 900 BBB <i>Lower Jaw W50 BBB</i> <i>Upper jaw Unipower 900</i> <i>Peeler W46 - 50</i> <i>SPRING</i>			
10	2	M6004597	O Ring 2237					1	S414280080	<i>SPRING</i>
11	1	S490800080	Flange					4	S385970001	
12	3	S490810004	Pin Ø12	29	2	A74135100	Bearing Ø85xØ97x26			
13	1	A76940700	Cover Unipower 900 BBB	30	1	S413520080	Spacer			
14	4	M0601803	Screw UNI EN ISO 1207:1996 - M6x35 - A4	31	1	A94136400	Assy Socket W20-80 <i>Socket Handle W20/80</i>			
15	1	S281690097	Red line					1	S415130085	<i>Washer Ø7.7xØ25x5.8</i>
16	6	S000080003	Pawl Ø8*	1	M0614303	<i>Screw M8x20 UNI 6109</i>				
17	6	S000380001	Pawl Spring Ø8*							
18	6	M0606103	Screw M6x60 UNI5931							
19	4	M0635103	Socket head screw M6x16 UNI 5931							
20	1	S490960004	Pawls carrier							
21	1	A94904100	Gear carrier <i>Gear carrier</i> <i>Heli-coil M6x9</i>							
	3	S414890080	<i>Bushing Ø9xØ11x7</i>							

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

**Winch product sticker



UniPower 900 CCC

CCC = All-Chrome bronze

Pos.	Q.ty	Code	Description	Pos.	Q.ty	Code	Description	
1	1	A94953300	Kit Motor 0,7kW 12V Unipower 900	22	3	A94903900	Gear assembly Z=10	
	1	A96508600	Kit Motor 0,9kW 24V Unipower 900 <i>Electric motor</i>		1	S490390004	<i>Gear Z=14</i>	
	1	M6014206	<i>Polarity motor sticker</i> <i>Key DIN 6885 5x5x15</i>		1	M6017594	<i>Bushing Iigus GFM-121418-20</i>	
2	1	S490310004	Pinion Z=9	23	1	A94909800	First planetary assy <i>Gear Carrier</i> <i>Gear z=26</i> <i>Ball 3/16"</i> <i>Pin Ø6</i> <i>Bushing Iigus XSM-0608-10</i>	
3	1	A96940300	Assy base UniPower 900 CCC <i>Support UniPower 900 CCC-BBB</i>		24	1	A94910000	Second planetary assy <i>Pawl Carrier</i> <i>Gear Z=23</i> <i>Pin Ø8</i> <i>Bushing Iigus XSM 0810-12</i>
	1	S694030043	<i>Skirt for base UP900 CCC</i> <i>Winch Product Sticker**</i>					
4	1	S490340004	Ring gear Z=63	25	3	M6007103	Screw M6x50 UNI6107	
5	6	S450660003	Roller Ø5x10.5	26			Winch Serial Number Sticker	
6	1	M0648397	Seal Ø30xØ38x4 NBR	27	1	A94946100	Assy Unipower 900 C Drum <i>Drum Unipower 900 C</i> <i>Ball 3/16"</i>	
7	1	S4129400A0	Stripper arm support		1	S494610043		
8	1	S413440019	Stripper Arm W50		69	M0619580		
9	1	S490780004	Gear Z=27	28	1	A96998300	Assy jaws UniPower 900 CCC <i>Lower Jaw W50 CCC</i> <i>Upper jaw Unipower 900 RAL9003</i> <i>Peeler W46 - 50 RAL9003</i> <i>SPRING</i>	
10	2	M6004597	O Ring 2237		1	S414280080W		
11	1	S490800080	Flange		4	S385970001		
12	3	S490810004	Pin Ø12	29	2	A74135100	Bearing Ø85xØ97x26	
13	1	A76940400	Cover Unipower 900 CCC	30	1	S413520080	Spacer	
14	4	M0601803	Screw UNI EN ISO 1207:1996 - M6x35 - A4	31	1	A94136400	Assy Socket W20-80 <i>Socket Handle W20/80</i> <i>Washer Ø7.7xØ25x5.8</i> <i>Screw M8x20 UNI 6109</i>	
15	1	S281690097	Red line		1	S415130085		
16	6	S000080003	Pawl Ø8*		1	M0614303		
17	6	S000380001	Pawl Spring Ø8*					
18	6	M0606103	Screw M6x60 UNI5931					
19	4	M0635103	Socket head screw M6x16 UNI 5931					
20	1	S490960004	Pawls carrier					
21	1	A94904100	Gear carrier <i>Gear carrier</i> <i>Heli-coil M6x9</i>					
	3	S414890080	<i>Bushing Ø9xØ11x7</i>					

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

**Winch product sticker

