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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

<table>
<thead>
<tr>
<th>Power ratio</th>
<th>Gear ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st speed</td>
<td>11,70 : 1</td>
</tr>
<tr>
<td>2nd speed</td>
<td>46,50 : 1</td>
</tr>
</tbody>
</table>

*The theoretical power ratio does not take friction into account.*

Performance data

**Winch 46.2 STP E (electric)**

<table>
<thead>
<tr>
<th></th>
<th>horizontal motor</th>
<th>vertical motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 V (700 W)</td>
<td>24 V (900 W)</td>
<td>12 V (1500 W)</td>
</tr>
<tr>
<td>24 V (2000 W)</td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>line speed (m/min)**</th>
<th>26,7</th>
<th>6,7</th>
<th>33,5</th>
<th>8,4</th>
<th>35,1</th>
<th>8,8</th>
<th>42,3</th>
<th>10,7</th>
</tr>
</thead>
<tbody>
<tr>
<td>max load (Kg)</td>
<td>315</td>
<td>1300</td>
<td>315</td>
<td>1300</td>
<td>315</td>
<td>1300</td>
<td>315</td>
<td>1300</td>
</tr>
</tbody>
</table>

**Line speed is measured with no load**

**Winch 46.2 STP E (hydraulic)**

<table>
<thead>
<tr>
<th>motor nominal power (W)</th>
<th>current absorption at winch MWL (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 V</td>
<td>24 V</td>
</tr>
<tr>
<td>700</td>
<td>900</td>
</tr>
<tr>
<td>220</td>
<td>170 (A)</td>
</tr>
<tr>
<td>1500</td>
<td>2000</td>
</tr>
</tbody>
</table>

Winch 46.2 STP HY

<table>
<thead>
<tr>
<th>line speed (m/min)*</th>
<th>52,5</th>
<th>13,2</th>
</tr>
</thead>
<tbody>
<tr>
<td>max load (Kg)***</td>
<td>315</td>
<td>1300</td>
</tr>
</tbody>
</table>

* at 20 L/min oil flow (5.28 Gal/min)
*** at 120 bar a 20 L/min

**NOTE**

The ratio the line load - pressure are evaluated at flow 20 l/min,
at different flow the line load - pressure ratio change and it’s minimum at motor stall.
The pressure on the graph it’s the pressure drop between in and out motor ports.
The performance are evaluated measuring the pressure and flow on the motor ports.
Performance data based on oil with a viscosity of 35mm²/s [165 SUS] and temperature of 50° [120° F]
**Weight**

<table>
<thead>
<tr>
<th>weight (Kg)</th>
<th>ST EH</th>
<th>ST EV</th>
<th>ST H</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>14,9</td>
<td>16,7</td>
<td>12,7</td>
</tr>
</tbody>
</table>

Versions:
EH = horizontal electric winch
EV = vertical electric winch
H = vertical hydraulic winch

**Maximum working load**

**WARNING!**
The maximum working load (MWL) for the 46.2 ST E/HY Performa™ Winch is 1300 Kg (2866 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.
Vertical electric motor (12 V / 24 V)

Hydraulic motor

Line entry height

Vertical electric motor (12 V / 24 V)

Hydraulic motor

Line entry height

Vertical electric motor (12 V / 24 V)

Hydraulic motor

Line entry height
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 ±2°, 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 any one of four different positions that differ by 60° from each other.

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°30
2. Unscrew the central screw (2Nm/18 in-lb)
3. Slide off the assy socket n°27 and the cover n°26. Pay attention to the o-ring in the socket.
4. Unscrew the three screws n°25 (4Nm/35 in-lb)
5. Remove the stripper arm n°24 by rotating and lifting it.
6. Lift off the drum n°28

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)
**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.

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 8.2 mm diameter holes.

**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**

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 the six 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 certain winch models it is obligatory to install the WLC 200R.

WARNING! Consult the table below to check for which winch models it is obligatory to install the WLC200R and for which it is recommended.

<table>
<thead>
<tr>
<th>WINCH PERFORMA™</th>
<th>Horizontal motor 12 V</th>
<th>24 V</th>
<th>Vertical motor 12 V</th>
<th>24 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>46.2</td>
<td>recommended</td>
<td></td>
<td>obligatory</td>
<td>obligatory</td>
</tr>
</tbody>
</table>

For more information, refer to the WLC200R Manual.

Refer to the following diagrams for the electric wiring:

*Horizontal 12 V / 24 V motor installed without WLC200R*
Horizontal 12 V / 24 V motor in right-hand configuration installed with WLC200R

Horizontal 12 V / 24 V motor in left-hand configuration installed with WLC200R
Fasten electric control box containing solenoids to bulkhead or wall. Install remote circuit breaker between power supply and electric control box. Locate push-buttons on deck in a convenient spot for easy winch operation.

Refer to the following chart for wire size:

<table>
<thead>
<tr>
<th>Total distance between winch and battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winch size</td>
</tr>
<tr>
<td>------------</td>
</tr>
<tr>
<td>46.2</td>
</tr>
<tr>
<td>46.2</td>
</tr>
</tbody>
</table>
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

Hydraulic connections diagram

The hydraulic motor must to be connected to a hydraulic system using two high-pressure tubes which serve for input or output according to the direction in which the motor will be run. The motor also needs a third connection with a low pressure tube for drainage, so that excess oil can return to the main tank to avoid shortening the life of the motor. This motor uses an open centre valve.

Refer to the following chart for the hydraulic system:

For the hydraulic motor:
Input/output pipe thread: G 1/2 – depth 15 mm
Drainage pipe thread: G 1/4 – depth 12 mm
**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.

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**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

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**WARNING!**

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

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

7. Completely unscrew the three screws n° 25 and remove the stripper arm support n°21

8. Slide out the central shaft n°19

9. Unscrew the 5 hex screws n°16 (\(\sim 20\text{Nm}/177 \text{ in-lb}\))

10. Remove the assy housing n°15
    Important: washer n°12 may remain inside the drum support!

11. Remove the gear n°14

12. Remove the washer n°12
13. Remove the gearing n°9 and remove the pawls n°7. To facilitate the operation press the spring against the pawl with a blade.

14. Slide off gear n°2

15. Remove the pinion n°10.

16. Slide off gear n°5

17. Remove the washer n°4.
If it is necessary to replace any jaws of the winch, proceed as follows:

I. Unscrew the 4 screws n°23 (4Nm/35 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!
Apply Harken® grease on assy socket screw

Apply Harken® grease on the middle step of assy housing
**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.

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.*

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Tech Service
Email: technicalservice@harken.com

Customer Service
Tel: (262) 691-3320
Email: customerservice@harken.com
## Parts list

### Performa Winch 46.2 STP E/HY

<table>
<thead>
<tr>
<th>Pos</th>
<th>Q.ty</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>A 966339 00</td>
<td><strong>PERFORMA Assy Base Winch 46 EL/HY</strong>&lt;br&gt;<strong>PERFORMA Base W46</strong>&lt;br&gt;Heli-coil M8x10&lt;br&gt;Roller Ø6x19&lt;br&gt;Bushing Ø22xØ25x8.5&lt;br&gt;Bushing Ø9xØ11x7&lt;br&gt;Bushing Ø12xØ14x11</td>
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<tr>
<td>2</td>
<td>1</td>
<td>S 41302 00 04</td>
<td>Gear Z12</td>
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<td>1</td>
<td>S 41330 00 04</td>
<td>Pin ø12x60</td>
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<tr>
<td>4</td>
<td>1</td>
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<td>Washer 12.5x48x1.5*</td>
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<td>5</td>
<td>1</td>
<td>S 41326 00 04</td>
<td>Gear Z27</td>
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<td>6</td>
<td>1</td>
<td>S 41426 00 04</td>
<td>Pawls Carrier Ø6xN2</td>
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<td>7</td>
<td>6</td>
<td>S000090004</td>
<td>Pawl Ø 8*</td>
</tr>
<tr>
<td>8</td>
<td>6</td>
<td>S 00038 00 01</td>
<td>Pawl Spring dia 8*</td>
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<td>1</td>
<td>S 41283 00 41</td>
<td>Gear Z23</td>
</tr>
<tr>
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<td>S 41325 00 41</td>
<td>Pinion Z13</td>
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<td>2</td>
<td>M6017694</td>
<td>IGUS Bushing PSM-1214-20*</td>
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<tr>
<td>12</td>
<td>1</td>
<td>S 41312 00 02</td>
<td>Washer Ø22.5xØ45x1*</td>
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<tr>
<td>13</td>
<td>1</td>
<td>S 41307 00 04</td>
<td>Pin ø9-ø12x32.5</td>
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<td>A 941334 00</td>
<td><strong>Assy Gear Z12</strong>&lt;br&gt;<strong>Gear Z12</strong>&lt;br&gt;<strong>Bushing Ø12xØ14x8</strong></td>
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<tr>
<td>15</td>
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<td>A 941322 00</td>
<td><strong>Assy Housing Winch 46</strong>&lt;br&gt;<strong>Housing Winch 46</strong>&lt;br&gt;<strong>Bushing Ø12xØ14x8</strong>&lt;br&gt;<strong>Bushing Ø12xØ14x11</strong>&lt;br&gt;Heli-coil M6x9&lt;br&gt;Bushing for support</td>
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<tr>
<td>16</td>
<td>5</td>
<td>M0606303</td>
<td>Screw M8x25 UNI 5931*</td>
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<td>17</td>
<td>2</td>
<td>A 741337 00</td>
<td>Bearing Ø75xØ87x26*</td>
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<td>18</td>
<td>1</td>
<td>S 41339 00 80</td>
<td>Spacer*</td>
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<tr>
<td>19</td>
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<td>A 967770 00</td>
<td>Assy Central Shaft W46 EL/HY&lt;br&gt;Central Shaft W46 EL/HY&lt;br&gt;Washer Ø17.2xØ22x1.5</td>
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<tr>
<td>20</td>
<td>1</td>
<td>S 41876 00 63</td>
<td>Winch Serial Number Sticker</td>
</tr>
<tr>
<td>21</td>
<td>1</td>
<td>S 41294 00 A0</td>
<td>Stripper arm support</td>
</tr>
<tr>
<td>22</td>
<td>1</td>
<td>A 965895 00</td>
<td>Performa Assy Jaws W46&lt;br&gt;Lower Jaw W46&lt;br&gt;Performa Upper jaw W46&lt;br&gt;Peeled W46 - 50&lt;br&gt;SPRING</td>
</tr>
<tr>
<td>23</td>
<td>4</td>
<td>M0601803</td>
<td>Vite UNI EN ISO 1207:1996 - M6x35 - A4*</td>
</tr>
<tr>
<td>24</td>
<td>1</td>
<td>S 65739 00 19</td>
<td>Performa Black Stripper Arm W46</td>
</tr>
<tr>
<td>25</td>
<td>3</td>
<td>M6007103</td>
<td>Screw M6x60 UNI6107*</td>
</tr>
<tr>
<td>26</td>
<td>1</td>
<td>S 41270 00 A5</td>
<td>Cover 2 speed W46</td>
</tr>
<tr>
<td>27</td>
<td>1</td>
<td>A 941493 00</td>
<td>Assieme Socket W35-80 EL/HY&lt;br&gt;Socket Handle W20/80&lt;br&gt;Washer ø25xø15x4&lt;br&gt;Nut Screw for Disconnect Rod&lt;br&gt;O ring RC 2025 series</td>
</tr>
<tr>
<td>28</td>
<td>1</td>
<td>A 965723 00</td>
<td>Performa W46 Drum&lt;br&gt;Performa Drum W46&lt;br&gt;Ball 3/16&lt;br&gt;Bearing ring W46&lt;br&gt;Winch Product Sticker**</td>
</tr>
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<td>29</td>
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<td>Performa Shim W46</td>
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<td>30</td>
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<td>S 41611 00 02</td>
<td>Disconnect Rod W46</td>
</tr>
</tbody>
</table>

*Service kit available; see winch kit section on the website www.harken.com

**Winch product sticker
Horizontal electric motor

* Motor installed in right-hand configuration.

** Motor installed in left-hand configuration.

<table>
<thead>
<tr>
<th>Pos</th>
<th>Qty</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
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<td>A 931279 00</td>
<td>KIT Gear Reduction VF49*</td>
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<tr>
<td></td>
<td>1</td>
<td>A 941949 00</td>
<td>KIT LM Gear Reduction VF49 **</td>
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<tr>
<td>2</td>
<td>1</td>
<td>A 941492 00</td>
<td>KIT Assy Electric Motor Flange</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>A 941495 00</td>
<td>KIT EL HO Motor Flange</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>A 963376 00</td>
<td>Performa KIT EL/HO Motor Clutch</td>
</tr>
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Vertical electric motor

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Hydraulic motor

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