## Self-Recovery Winch

## Model: Seal DS-9.5rs

PN: 293655 12V DC

## Introduction

## Feature

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\begin{array}{ll}
\text { Line pull: } & 4,309 \mathrm{~kg} / 9,500 \mathrm{lb} \text { synthetic rope first layer } \\
\text { Synthetic rope: } & 9.5 \mathrm{~mm} \times 30.5 \mathrm{~m}\left(3 / 8 " \times 100^{\prime}\right) \text { synthetic rope SK-75 } \\
\text { Brake: } & \text { Patented cone brake holds full load } \\
\text { Clutch: } & \text { Turn the T-handle for rapid rope payout } \\
\text { Control: } & \text { Handheld pendant switch powers the winch }
\end{array}
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## - Unpacking

- Winch assembly ..... 1 pc
- Detachable control box ..... 1 pc
- Remote control ..... 1 pc
- Synthetic rope with hook ..... 1 pc
- Hawse fairlead ..... 1 pc
- 1.8 m (6') 2 gauge battery lead ..... 1 pc
- Wireless Transmitter ..... 1 pc
Read this manual carefully
You should carefully read and understand this manual before operating it.Careless winch operation may result in personal injury hazards or propertydamage.


## Installation

Before using the winch, make sure all electrical components have no corrosion or damaged; the environment should be clear and dry.

- Winch and hawse fairlead mountings
- It is very important that the winch will be mounted on a flat and hard surface of mounting channel in order to make sure the motor, drum and gearbox housing are aligned correctly.
- Hawse fairlead does not mount to the winch directly.

- The synthetic rope shall be wound in an under-wound orientation only.
- Four (4) M10 $\times 1.50$ pitch 8.8 grade high tensile steel bolts must be used in order to sustain the loads imposed on the winch mounting.
- Two (2) M12 x 1.75 pitch 8.8 grade high tensile steel bolts must be used for fastening the hawse fairlead into the mounting channel.


## - Wiring Diagram

Attach the black lead firmly to the negative (-) battery terminal and red lead to the positive (+) battery terminal. The voltage drop for the winch motor must not exceed $10 \%$ of the nominal voltage of 12 V DC.


Nut fastening for motor \& contactor

1. Holding the lower nut on the stub and fastening the upper nut clockwise.
2. The torque setting for nut is $14 \mathrm{~N}-\mathrm{m} / 124 \mathrm{lb}-\mathrm{in}$.


## Warning

- The winch is not intended to be used in any manner for the movement or lifting of personnel.
- The rated line pull shown is based on the first layer of rope on the drum.
- The rope winding on the drum shall remain 5 wraps from the drum.


## Parts List

Ver:1

| Item No. | Description | Part No. | Qty |
| :---: | :---: | :---: | :---: |
| 1 | Motor 12V | 881483 | 1 |
| 2 | Tie bar kit | 880349 | 2 |
| 3 | Motor support rack | 881562 | 1 |
| 4 | Motor coupling | 880005 | 1 |
| 5 | Drum bushing | 880006 | 2 |
| 6 | Drum kit | 881485 | 1 |
| 7 | Gearbox support rack | 881563 | 1 |
| 8 | Grounding lead | 880009 | 1 |
| 9 | Synthetic rope with hook | 881304 | 1 |
| 10 | $1{ }^{\text {st }}$ shaft | 880011 | 1 |
| 11 | $3{ }^{\text {rd }}$ ring gear kit | 880114 | 1 |
| 12 | $3^{\text {rd }}$ stage carrier | 880115 | 1 |
| 13 | $2^{\text {nd }}$ stage carrier | 880116 | 1 |
| 14 | $1^{\text {st }}$ stage carrier | 880117 | 1 |
| 15 | $1^{\text {st }} \& 2^{\text {nd }}$ ring gear | 880118 | 1 |
| 16 | $1^{\text {st }}$ pinion | 880119 | 1 |
| 17 | Clutch kit | 881564 | 1 |
| 18 | Gear box kit | 880121 | 1 |
| 19 | Cone brake disc kit | 880122 | 1 |
| 20 | Brake cover kit | 880123 | 1 |
| 21 | Hawse fairlead | 881061 | 1 |
| 22 | Mounting hardware | 880024 | 1 |
| 23 | Remote control | 880126 | 1 |
| 24 | Handsaver strap | 880026 | 1 |
| 25 | Detachable control box 12V | 881168 | 1 |
| 25-1 | Remote socket kit 12V | 881491 | 1 |
| 25-2 | Detachable control pack 12V | 881554 | 1 |
| 25-2-1 | Wireless receiver | 881489 | 1 |
| 25-3 | Wireless transmitter | 881102 | 1 |
| 26 | Brake clutch base | 881100 | 1 |
| 27 | Damper | 881557 | 1 |
| 28 | Gloves | 881558 | 1 |

## Winch Assembly



