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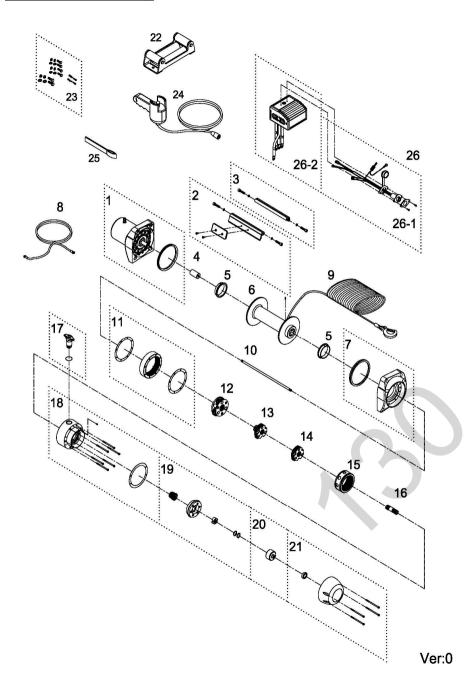
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# **Winch Assembly**





# Self-Recovery Winch

# Model: Seal Gen2 9.5

PN: 295950 12V DC

### Introduction

### ▶ Feature

Line pull: 4,309 kg / 9,500 lb wire rope first layer

Wire rope:  $8.7 \text{ mm} \times 30.5 \text{ m} (11/32"\times 100')$  galvanized aircraft A7 × 19

Brake: Patented cone brake holds full load

Clutch: Turn the T-handle for rapid wire rope payout Control: Handheld pendant switch powers the winch

### ▶ Unpacking

Winch assembly	1 pc
Control box	1 pc
Remote control	1 pc
Wire rope with hook	1 pc
Roller fairlead	1 pc
• 1.8 m (6') 2 gauge battery lead	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 property damage.

# **Installation**

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

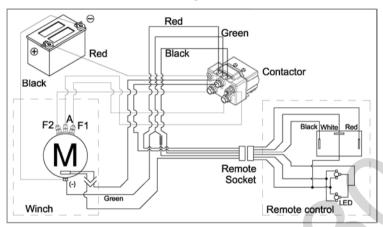
### ▶ Winch and roller fairlead mountings

 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.

- Roller fairlead does not mount to the winch directly.
- The wire rope shall be wound in an under-wound orientation only.
- Four (4) M10 x 1.50 pitch 10.9 grade with 44 N-m torque settings (maximum) 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 with 76 N-m torque settings (maximum) high tensile steel bolts must be used for fastening the roller fairlead into the mounting channel.

### ▶ Wiring Diagram

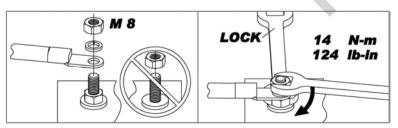
Attach the black lead firmly to the negative (–) battery terminal and red lead to the positive (+) battery terminal. The voltage drop for the winch motor must not exceed 10% of the nominal voltage of 12V DC.



### ▶ 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 N-m/124 lb-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**

Item No.	Description	Part No.	Qty
1	Waterproof motor w/housing 12V	882519	1
2	Forward Tie bar kit	882521	1
3	Reverse Tie bar kit	882522	1
4	Motor coupling	880005	1
5	Drum bushing	880006	2
6	Drum kit	881521	1
7	Gearbox support rack	882523	1
8	Grounding lead	880009	1
9	Wire rope w/hook	880112	1
10	1 <sup>st</sup> shaft	880011	1
11	3 <sup>rd</sup> ring gear kit	880114	1
12	3 <sup>rd</sup> stage carrier	880115	1
13	2 <sup>nd</sup> stage carrier	880116	1
14	1 <sup>st</sup> stage carrier	880117	1
15	1 <sup>st</sup> & 2 <sup>nd</sup> ring gear	880118	1
16	1 <sup>st</sup> pinion	880119	1
17	Clutch kit	881564	1
18	Gear box kit	882524	1
19	Cone brake disc kit	880122	1
20	Brake clutch base	881100	1
21	Brake cover kit	882525	1
22	Roller fairlead	880023	1
23	Mounting hardware	880024	1
24	Remote control	880126	1
25	Handsaver strap	880026	1
26	Control box 12V	881164	1
26-1	Remote socket kit 12V	881373	1
26-2	Control pack 12V	881400	1