

Self-Recovery Winch

Model: DV-12

PN: 857130 12V 931886 12V 857228 24V 931871 24V

Introduction

▶ Feature

Line pull: 5,443 kg / 12,000 lb wire rope first layer

Wire rope: 9.5 mm \times 38 m (3/8" \times 125') galvanized aircraft A7 \times 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 | |
|-------------------------------------|------|
| Detachable control box | |
| 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

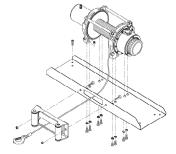
You should carefully read and understand this manual before operating it. Careless winch operation may result in personal injury hazards or property damage.

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

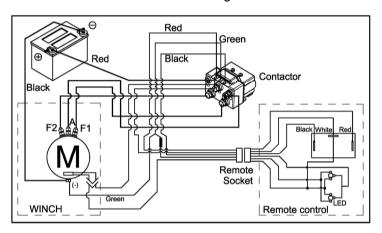
- It is very important that the winch will be mounted on a flat and hard surface of mounting channel in order to make sure the motor, drum and gearbox housing are aligned correctly.
- Roller fairlead does not mount to the winch directly.



- The wire rope shall be wound in an under-wound orientation only.
- Eight (8) M12 x 1.75 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 roller fairlead into the mounting channel.

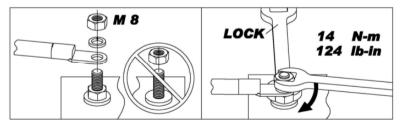
▶ Wiring Diagram

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 12/24V 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

Ver:1

| | | | ACI'I |
|----------|---|----------|-------|
| Item No. | Description | Part No. | Qty |
| 1 | Motor 12V | 881296 | 1 |
| | Motor 24V | 881297 | |
| 2 | Tie bar kit | 880045 | 3 |
| 3 | Motor support rack | 880046 | 1 |
| 4 | Motor coupling | 880047 | 1 |
| 5 | Drum bushing | 880048 | 2 |
| 6 | Drum kit | 882162 | 1 |
| 7 | Gearbox support rack | 880050 | 1 |
| 8 | Grounding lead | 880009 | 1 |
| 9 | Wire rope w/hook | 880052 | 1 |
| 10 | 1 st shaft | 880053 | 1 |
| 11 | 3 rd ring gear kit | 880054 | 1 |
| 12 | 3 rd stage carrier | 881944 | 1 |
| 13 | 2 nd stage carrier | 880056 | 1 |
| 14 | 1 st stage carrier | 880057 | 1 |
| 15 | Retaining ring | 880058 | 1 |
| 16 | 1 st & 2 nd ring gear | 880059 | 1 |
| 17 | 1 st pinion | 880060 | 1 |
| 18 | Clutch kit | 880061 | 1 |
| 19 | Gear box kit | 880062 | 1 |
| 20 | Brake base | 880063 | 1 |
| 21 | Cone brake disc kit | 880021 | 1 |
| 22 | Brake cover kit | 880065 | 1 |
| 23 | Roller fairlead | 880066 | 1 |
| 24 | Mounting hardware | 880067 | 1 |
| 25 | Remote control | 880126 | 1 |
| 26 | Handsaver strap | 880026 | 1 |
| 27 | Detachable control box 12V | 881164 | 1 |
| | Detachable control box 24V | 881165 | |
| 27-1 | Remote socket kit 12V | 881373 | 1 |
| | Remote socket kit 24V | 881374 | |
| 27-2 | Detachable control pack 12V | 881400 | 1 |
| | Detachable control pack 24V | 881401 | |
| 28 | Brake clutch base | 881434 | 1 |
| - | 1 | | 1 |

Winch Assembly

