

Utility Duty Winch Model: *DV-4500i*

PN: 641656 12V DC

641504 12V DC

642037 24V DC

Introduction

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Line pull: 2,041 kg / 4,500 lb wire rope first layer

Wire rope; 6.3 mm x 15.2 m (1/4" x 50') galvanized aircraft A7 \times 19

Brake: Mechanical and dynamic brakes hold full load
Clutch: Raise the clutch level for rapid wire rope payout

Control: Handheld pendant switch powers the winch

Unpacking

· Integrated solenoid kit	1 pc
· Remote control	1 pc
· Wire rope with hook	1 pc
· Wire rope with hook 5.6mmX18M(7/32"X59') for PN:641504	1 pc
· Roller fairlead	1 pc
· 1.5 m battery leads	1 pc
· Circuit breaker	1 nc

► 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.

► Information requesting or parts ordering

Please specify the followings information:

Winch PN
 Part description

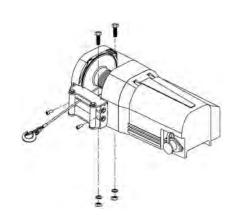
· Serial number · Replacement part number

· Quantity for each part

Installation

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

The voltage drop must not exceed 10% of the nominal voltage of 12V or 24V under normal operation condition.

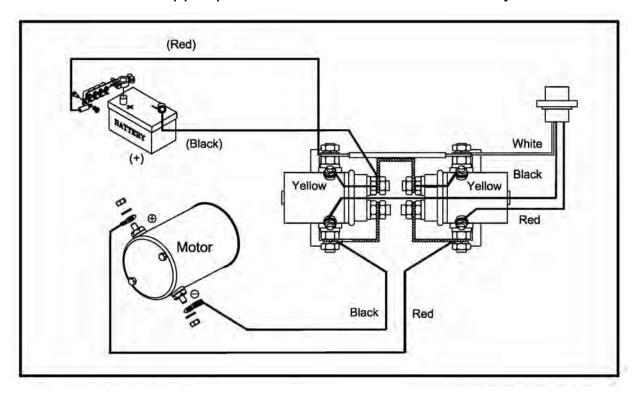


Winch and roller fairlead mounting

- Use the mounting hardware supplied to mount the winch on a flat surface.
- The motor, drum and gear housing must be properly aligned.

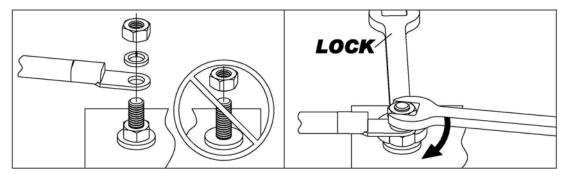
Wiring Diagram

- The battery lead specifications for 12V winch are 6 AWG X 1.5 m (5') and 8 AWG X 1.5 m (5') for 24V winch respectively.
- Use a 5/16" bolt, nut and washer to attach the firmly to the bolts of solenoid respectively.
- Attach the red lead, positive (+), tightly to the circuit breaker marked AUX, meanwhile, connect the copper plate to the other end of the circuit breaker marked BAT.
- Connect the copper plate to the connector of the battery.



► Nut fastening for motor & solenoid

- 1. Holding the lower nut on the stub and fastening the upper nut clockwise.
- 2. The torque setting for motor nut M6 is 5.7 N-m / 50 lb-in and solenoid nut M8 is 14 N-m / 124 lb-in.



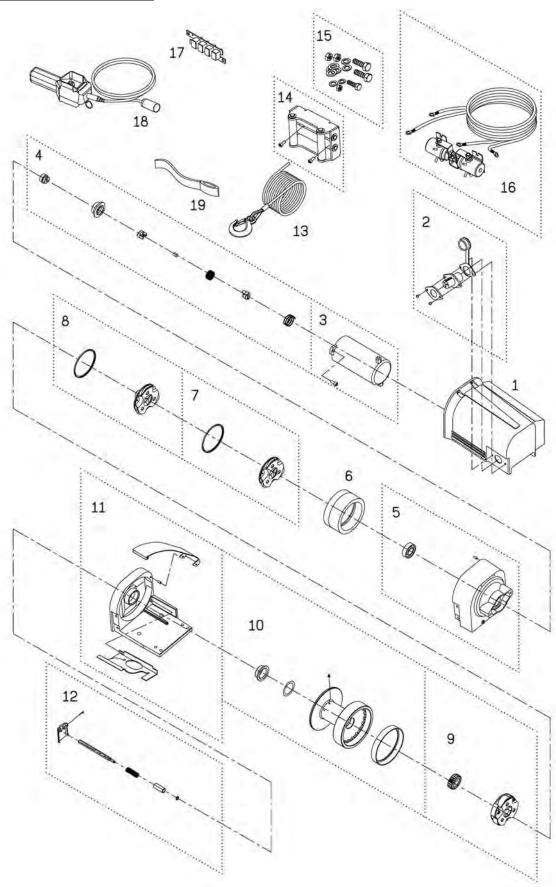
Warning

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

Parts List

Item No.	Description	Part Number	Qty	
1	Rear cover	880136	1	
2	Remote socket kit	880137	1	
3	Motor kit, 12V	880301	1	
	Motor kit, 24V	880302		
4	Brake kit	880280	1	
5	Gear box kit	880281	1	
6	Ring gear	880141	1	
7	1 st stage carrier	880283	1	
8	2 nd stage carrier	880284	1	
9	3 rd stage carrier	880285	1	
10	Drum kit	880286	1	
11	Base plate kit	881284	1	
12	Clutch kit	880287	1	
13	Wire rope w/hook	880305	- 1	
	Wire rope w/hook for PN:641504	881753		
14	Roller fairlead	880289	1	
15	Mounting hardware	880290	1	
16	Solenoid pack, 12V	880291	- 1	
	Solenoid pack, 24V	880292		
17	Circuit breaker kit, 12V	880303	- 1	
	Circuit breaker kit, 24V	880300		
18	Remote control	880295	1	
19	Handsaver strap	880026	1	

Winch Assembly



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