

INTRODUCTION

FOR

ATV WINCH

IDS3000-A/IDS3500-A/IDS4000-A

INTRODUCTION

Thank you for purchasing a 3000lbs/3500lbs/4000lbs winch from us. Please read and understand this owner's manual prior to using and using your winch.

GENERAL DESCRIPTION

This winch is equipped with a permanent magnet motor and is designed for intermittent duty general use. The winches not designed to be used for industrial or hoisting applications and the manufacturer goes not intend it to be suitable for such use. Free spool clutch is operated by a turn knob which disengages the gearbox to allow the wire rope to feed out without using electric power. A tension plate reduces and snarling when pulling out the wire rope.

GENERAL SAFETY INFORMATION

Never lift people or hoist loads over people. Do not lift items with this winch was designed for horizontal use only. Do not overload. For loads over 1000lbs/1250lbs/1500lbs, we recommend the use of the optional pulley block to double line the wire. Do not attempt to prolonged pulls at heavy loads. The electric winch is designed for intermittent use only and should not be used in a continuous duty application. The duration of the pulling job should be kept

as short as possible. If the winch motor becomes very hot to the touch, stop the winch and let it to cool down for several minutes. Never pull for more than one minute at or near the rated load.

4. Never winch with less than 5 turns of wire rope around the winch drum since the wire rope end fastener may not withstand full load.

5. Avoid continuous pull from extreme angles as this will cause the wire rope to pile up on one end of the drum. This can jam the wire rope in the winch, causing damage to the rope or the winch.

6. Be sure the input voltage between the terminals of motor is always DC 12V in order to reach the max rated line pull during the operation, and please note that it only can reach the max rated line pull by first layer of cable around the drum when pulling the loads.

7. Never hook the wire rope back to itself because you could damage the wire rope. Use a nylon sling.

8. Be sure the winch mounted on the vehicle or other objective before operation.

9. When moving a load, slowly take up the wire rope slack until it becomes taut. Stop, recheck all winching connections. Be sure the hook is properly seated. If a nylon sling is used, check the attachment to the load.

10. It is a good idea to lay a heavy blanket or jacket over the wire rope near the hook end when pulling heavy loads. If a wire rope failure should occur, the cloth will act as a damper and help prevent the rope from

- rewind direction. Improper mounting could damage your winch and your warranty.
- 2. Route the two couple of lines from the switch to the motor and try respectively. Connect the red line to the positive(+) terminal and green(or black) line to the negative(-) terminal of the 12V battery. Connect the rest two line to the terminal on the motor of the electric winch
- 3. Check the direction of the drum turning. Pull and turn the clutch to the "OFF" position (drum can be turning free), pull out the cable the drum then engaged the clutch by turning the knob to the "IN" position. Push the "cable in" button on the switch, if the cable is respooling it is right way for connected. Otherwise please change the line selected the motor, and repeat the above mentioned operate.

OPERATION

- 1. Pull and turn the clutch knob to the "Off" position, so the drum can free by hand.
- 2. Grab the cable assembly hook and pull the cable to the desired length by handsaver bar. Then attach to item being pulled. **WARNING:** Make that there are at least five turns of wire rope left on the drum before operation.
- 3. Engaged the clutch by turning the clutch knob to the "in"

- position. **WARNING:** clutch must be fully engaged before winching, never engage clutch knob while drum is turning, the clutch knob has been adjusted and permanently locked in place with a thread locking compound at the factory. Do not attempt to re-adjust the knob.
- 4. Push and hold the "cable in" button on the handheld and the cable was re-spooled.
- Push and hold the "cable out" button to reverse directions, wait until the motor stops before reversing directions.
- Re-spooling cable after finished operation.

MAINTENANCE

- 1. Periodically check tightness of mounting bolts and electrical connections. Remove all the dirt of corrosion that may have accumulated on the electrical connections.
- 2. Do not attempt to disassembly the gearbox. Disassembly will void warranty. Repairs should be done manufacturer or authorized repaired center.
- 3. The gearbox having been lubricated using high temperature lithium grease at the factory.
- No internal lubrication is required.

REPLACE THE WIRE ROPE

- 1. Engaged the clutch by turning the clutch knob to the "in" position.

- When inserting the rope into the drum, insert it into the correct end of the hole provided, tighten the set screw securely.
- Operate the winch and re-spool the wire rope around the drum.

WARNING: always replace damaged wire rope with manufacturer's original replacement part.

LDSS3000-A

Performance specifications

Single line rated pull 3000lbs(1363kg)

Gear reduction ratio 136:1

Motor permanent magnet DC 12V motor

With 1.2hp output

Cable length \varnothing 4.8mm x 15.2m

mounting dimensions 76.2mm x 124mm

overall dimensions 360 x 118 x 118mm

brake mechanical brake

fairlead roller fairlead

drum length 80mm

performance data

Line pull(lbs/kg)	Line speed(FT/min, M/min)	Motor current(Amps)	Pull by layer layer(lbs(kgs))
0	9.5(2.9)	11	1/3000(1361)
500	9.2(2.8)	30	2/2640(1198)
1000	8.5(2.6)	40	3/2320(1052)
1500	7.9(2.4)	60	4/2040(925)
2000	7.2(2.2)	70	
2500	6.6(2.0)	80	
3000	5.2(1.6)	95	

LDS3500-A

Performance specifications

- Line rated pull 3500lbs(1590kg)
- reduction ratio 136:1
- Motor permanent magnet DC 12V motor
With 1.2hp output
- Cable length \varnothing 5.5mmx12.2m
- mounting dimensions 76.2mmx124mm
- overall dimensions 370x118x118mm
- brake mechanical brake
- fairlead roller fairlead
- drum length 80mm

Performance data

Line pull(lbs/kg)	Line speed(FT/min,M/min)	Motor current(Amps)	Pull by layer layer(lbs(kgs))
9.5(2.9)		11	1/3500(1590)
9.2(2.8)		30	2/2640(1198)
8.5(2.6)		40	3/2320(1052)
7.9(2.4)		60	4/2040(925)
7.2(2.2)		70	
6.6(2.0)		80	
5.2(1.6)		95	
4.6(1.4)		180	

LDS4000-A

Performance specifications

- Single line rated pull 4000lbs(1818kg)
- Gear reduction ratio 136:1
- Motor permanent magnet DC 12V motor
With 1.3hp output
- Cable length \varnothing 5.5mmx12.2m
- mounting dimensions 76.2mmx124mm
- overall dimensions 370x118x118mm
- brake mechanical brake
- fairlead roller fairlead
- drum length 80mm

Performance data

Line pull(lbs/kg)	Line speed(FT/min,M/min)	Motor current(Amps)	Pull by layer layer(lbs(kgs))
0	19.8(6.0)	11	1/4000(1818)
500	14.8(4.5)	30	2/3520(1600)
1000	10.9(3.3)	40	3/3098(1408)
1500	9.2(2.8)	60	4/2726(1239)
2000	7.6(2.3)	70	
2500	6.9(2.1)	80	
3000	5.9(1.8)	95	
3500	5.3(1.6)	180	
4000	3.6(1.1)	310	

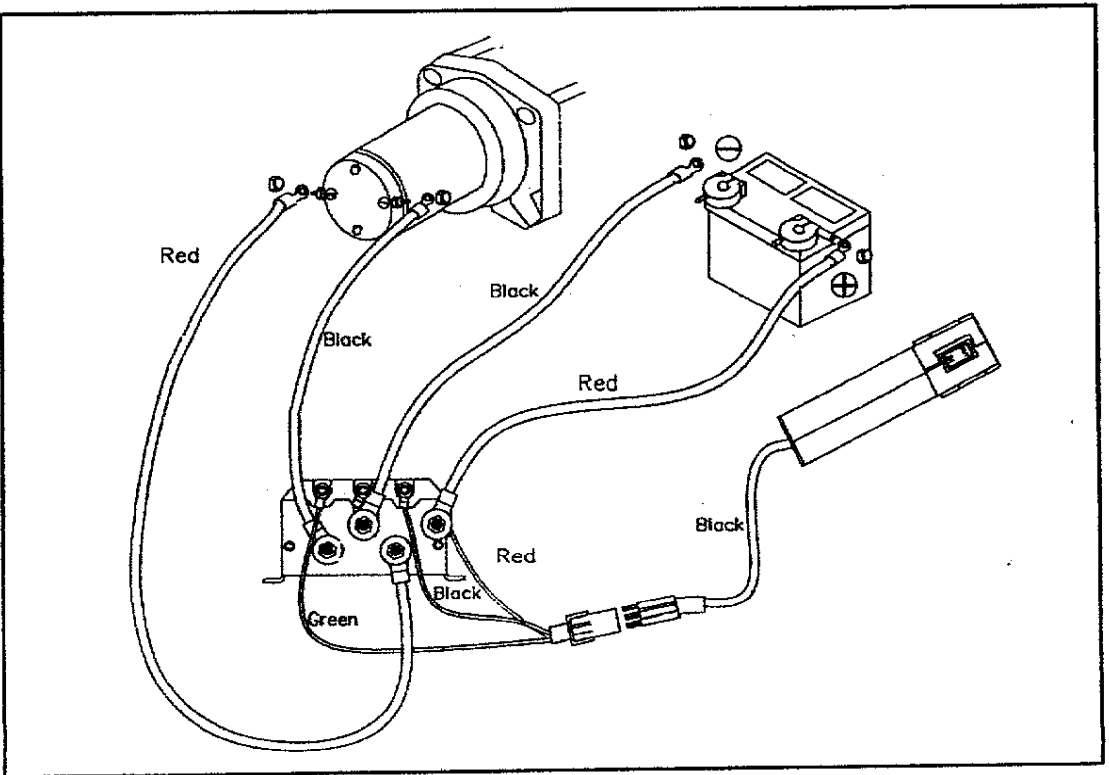
LDS4000-A

Performance specifications

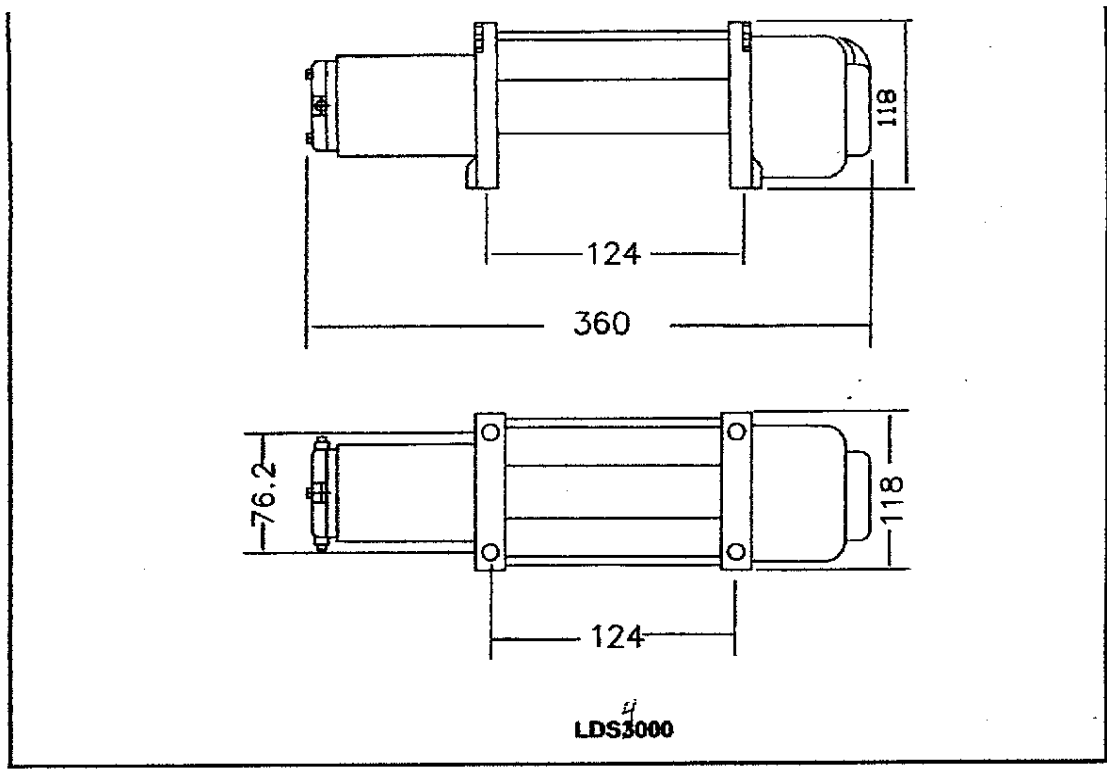
- Line rated pull 4000lbs(1818kg)
- Dr reduction ratio 136:1
- Motor permanent magnet DC 12V motor
- With 1.3hp output
- Line length \varnothing 5.5mmx16.8m
- Winding dimensions 76.2mmx168mm
- Overall dimensions 415x118x118mm
- Frame mechanical brake
- Lead roller fairlead
- Frame length 80mm

Performance data

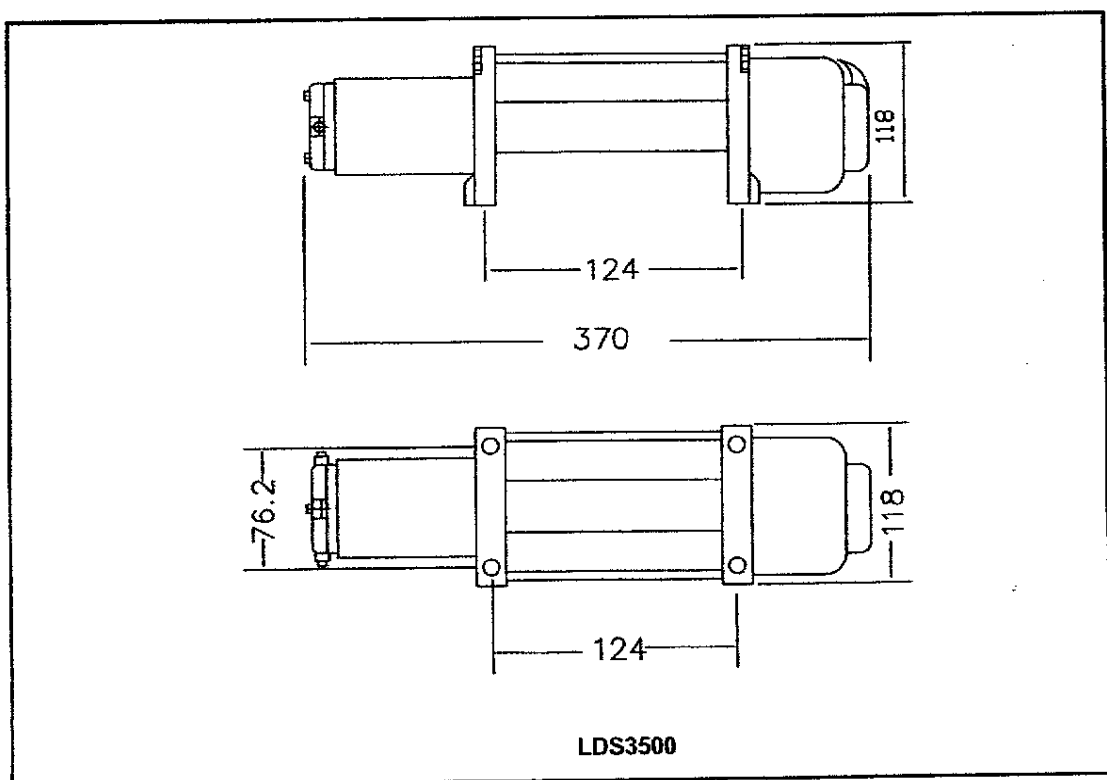
Line pull(lbs/kg)	Line speed(FT/min,M/min)	Motor current(Amps)	Pull by layer layer/lbs(kgs)
0	19.8(6.0)	11	1/4000(1818)
0	14.8(4.5)	30	2/3520(1600)
0	10.9(3.3)	40	3/3098(1408)
0	9.2(2.8)	60	4/2726(1239)
0	7.6(2.3)	70	
0	6.9(2.1)	80	
0	5.9(1.8)	95	
0	5.3(1.6)	180	
0	3.6(1.1)	310	

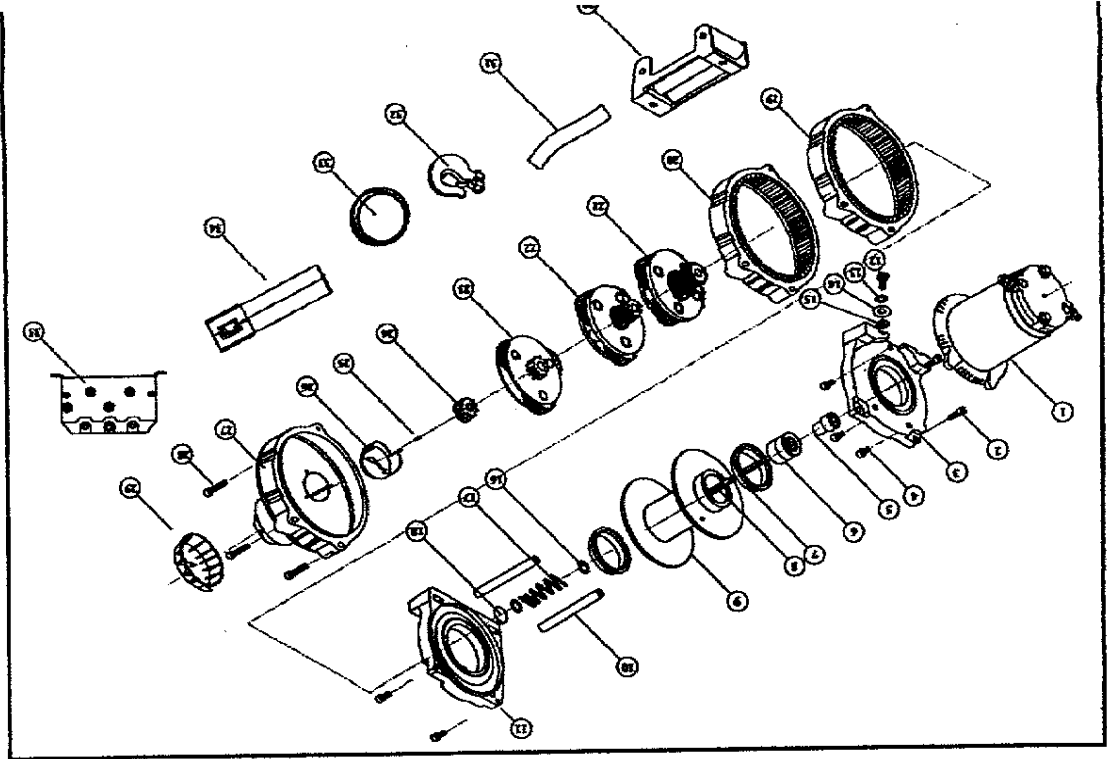


14



15





Item No.	Description	Qty
1	Motor	1
2	Nut M6 X 20	4
3	Motor base	1
4	Nut M6 X 20	6
5	Coupling joint	1
6	Clutch	1
7	T-series bushing	2
8	Transmission shaft	1
9	Drum	1
10	Tie bar	2
11	Gear-box base	1
12	Mounting bolt M8 X 20	4
13	Washer ϕ 8	4
14	Flat washer ϕ 8	4
15	Nut M8	4
16	Flat washer ϕ 10	2
17	Spring	1
18	Lock washer	1
19	Left gear box	1
20	Right gear box	1
21	Gear 1	1
22	Gear 2	1
23	Gear 3	1
24	Central gear	1
25	Nut M3.5 X 6	1
26	Bracket	1
27	End cover	1
28	Nut M6 X 55	3
29	Clutch handle Assy	1
30	Roller fairlead	1
31	Red strip	1
32	Hook	1
33	Wire rope	1
34	Switch assembly	1
35	Relay	1