
ELECTRIC WINCH
EWP2500
EWP3500
EWP4500

Assembly & Operating Instructions

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INTRODUCTION

Congratulations on your purchase of a high quality winch. We design and build winches to strict specifications and with proper use and maintenance should bring you years of satisfying service.

⚠️ WARNING - Read, study and follow all instructions before operating this device. Failure to heed these instructions may result in personal injury and/or property damage.

Your winch can develop tremendous pulling forces and if used unsafely or improperly could result in property damage, serious injury or death. Throughout this manual you will find the following symbols for caution, warning and danger. Pay particular attention to the notes preceded by these symbols as they are written for your safety. Ultimately, safe operation of this device rests with you, the operator.



This indicates a potentially hazardous situation, which if not avoided, may result in minor or moderate injury. This notation is also used to alert you against unsafe practices.



This indicates a potentially hazardous situation, which if not avoided, could result in death or serious injury.

GETTING TO KNOW YOUR WINCH

Your winch is a powerful piece of machinery. It is important that you understand the basics of its operation and specifications so that when you need to use it, you can use it with confidence and safety. Below is a list of the components of your winch and their use. You should practice using your winch before you are in a situation where you need to use it.















1. Your winch is part of our new product line which has been engineered with several patented technologies.

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2. Motor: Your motor is powered by a volt battery and provides power to the gear mechanism which turns the drum and winds the wire rope;
 3. Winch Drum: The winch drum is the cylinder on which the wire rope is stored. It can feed or wind the rope depending on the remote winch switch.
 4. Wire Rope (cable): Your winch has a galvanized aircraft cable designed specifically for load capacity of rated line pull. The wire rope feeds onto the drum in the "under wind" position through the roller fairlead and is looped at the end to accept the clevis hook pin.
 5. Roller Fairlead: When using the winch at an angle the roller fairlead acts to guide the wire rope onto the drum and minimizes damage to the wire rope from abrasion on the winch mount or bumper.
 6. Mechanic Gear System: The reduction gears convert the winch motor power into extreme pulling forces.
 7. Braking System: Braking action is automatically applied to the winch drum when the winch motor is stopped and there is a load on the wire rope. A separate mechanical brake applies the braking action.
 8. Control System: Your winch was made to provide you the ability to use it in a medley of operations. The winch can be controlled by using the Power Cord/Switch Assembly or through a solenoid control box.
 9. Free Spooling Clutch: The clutch allows the operator to manually disengage ("CLUTCH OUT") the spooling drum from the gear train, free spool. Engaging the clutch ("CLUTCH IN") locks the winch into the gear system.
 10. Solenoid: Power from the vehicle battery flows through the weather-sealed switch before being directed to the winch motor.
 11. Remote Switch: The Power switch leads have a dual switch for powering in or powering out your winch drum. The remote switch allows you to stand clear of the wire rope when the winch is under load.
 12. Wireless Remote Control: allow you to control winch far from 50 Ft away.
 13. Universal Flat Bed Mounting Channel: Your winch could have been optionally supplied with a flat bed mounting channel that can be mounted to most flat surfaces such as trailers, step bumpers, truck beds, etc. The mounting channel also has holes to accept your roller fairlead.


14. Snatch Block: If your winch is supplied with a snatch block that can double the pulling power of the winch, or change the pulling direction without damaging the wire rope. We recommend you to use double line and snatch block for pulling over 70% of the rated line pull.


SAFETY PRECAUTIONS


WARNING


-  **WARNING** – Do not exceed rated capacity shown in this table.
-  **WARNING** – Intermittent use only. Allow winch to cool between uses.
-  **WARNING** – Do not use winch to lift (vertically).
-  **WARNING** – Do not use winch to pull or move people in any way.
-  **WARNING** – NEVER cut, weld, or modify any part of the winch or cable.
-  **WARNING** – A minimum of five wraps of cable around the drum barrel is necessary for pulling and holding the rated load.
-  **WARNING** – Keep yourself and others a safe distance to the side of the cable when it is under tension.
-  **WARNING** – The wire rope may break before the motor stalls. For heavy loads at or near rated capacity, use a pulley block/snatch block to reduce the load on the wire rope.
-  **WARNING** – Never step over a cable, or go near a cable under load.
-  **WARNING** – Don't move the vehicle to pull a load (towing) on the winch cable. This could result in cable breakage.
-  **WARNING** – Disconnect the remote control and battery leads when not in use.
-  **WARNING** – Avoid “shock loads” by using the control switch intermittently to take up the slack in the wire rope. “Shock loads” can far exceed the rate capacity for the wire rope and drum.
-  **WARNING** – Do not exceeds maximum line pull ratings shown on the tables.
-  **WARNING** – When re-spooling the cable ensure that the cable spools in the under-wind position with the cable entering the drum from the bottom, not the top. To spool correctly you should keep a slight load on the cable while


pushing the remote button to draw in the cable. Walk toward the winch not allowing the cable to slide through your hands. Do not let your hands get within 12 " of the winch while re-spooling. Turn off the winch and repeat the procedure until a few feet of cable is left. Disconnect the remote control and finish spooling by hand by rotating the drum by hand with the clutch disengaged. Keep hands clear of the fairlead and drum while the winch is under power.


 Do not use as a hoist. Do not use for overhead lifting.


 Failure to heed these warnings may result in personal injury and/or property damage.

 **WARNING** – Use gloves to protect hands when handling the cable. Never let the cable slide through your hands.

 **WARNING** – Never connect the cable back to itself. Apply blocks to the wheels of the vehicle when on an incline. Duration of winching pulls should be kept as short as possible. If the motor becomes uncomfortably hot to the touch, stop winching immediately and let it cool down for a few minutes. Do not pull for more than one minute at or near the rated load.

 **CAUTION** – If the motor stalls do not maintain power to the winch. Electric winches are designed and made for intermittent use and should not be used in constant duty applications.

 **CAUTION** – Never disengage the clutch when there is a load on the winch..

 **CAUTION** – Use the hand saver hook when handling the hook for spooling or un-spooling the wire rope.

GENERAL TIPS FOR SAFE OPERATION

- The winch and its all-derivative types are rated at rated capacity when spooling the first rope layer on the drum. Overloading can damage the winch/motor/ or wire rope. For loads over 70% of rated line pull, we recommend the use of the pulley block/snatch block to double the wire rope line. This will aid in two ways: a) reduce the number of rope layers on the drum, as well as, b) reduce the load

on the wire rope by as much as 50%. When doubling the line back to the vehicle, attach to the frame or other load bearing part.

- The vehicle engine should be kept running during operation of the winch to minimize battery drain and maximize power and speed of the winch. If the winch is used for a considerable amount of time with the engine off, the battery may be drained and too weak to restart the engine.
- Get to know your winch before you actually need to use it. We recommend that you set up a few test runs to familiarize yourself with rigging techniques, the sounds your winch makes under various loads, the way the cable spools on the drum, etc.
- Inspect the wire rope and equipment before each use. A frayed or damaged rope must be replaced immediately. Use only the manufacturer's replacement rope with the exact specifications.
- Inspect the winch installation and bolts to ensure that all bolts are tight before each operation.
- Never connect the cable back to itself. This will cause cable damage. Always use a snatch block, sling or chain of suitable strength as shown in the illustrations.
- Store the remote control inside your vehicle in a place that it will not be damaged.
- Any winch that appears to be damaged in any way, is found to be worn, or operates abnormally shall be removed from service.
- Pull only on parts of the vehicle as specified by the vehicle manufacturer.
- Only attachments and/or adapters supplied by the manufacturer shall be used.
- Whenever before your winch start to working, please slightly test-run your winch in two direction, even if the winch drum only round a few degree of angle, ensure the winch is well-balanced, especially after you operated the clutch, test-running winch can make winch in gear.

WINCHING TECHNIQUES A-Z

- a. Take time to asses your situation and plan your pull.
- b. Put on gloves to protect your hands.

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- c. Disengage the clutch to allow free-spooling and to save energy.
 - d. Attach the hand saver hook to the clevis hook.
 - e. Pull out the wire rope to your desired anchor point using the hand saver hook.
 - f. Secure the clevis hook to the anchor point: Sling, chain or snatch block. Do not attach the hook back onto the wire rope.
 - g. Engage the clutch.
 - h. Connect the remote control to the winch.
 - i. Start your engine to ensure power is being replenished to the battery.
 - j. Power in the wire rope guiding the wire under tension to draw up the slack in the wire. Once the wire is under tension stand well clear. Never step over the wire rope.
 - k. Disengage the clutch to allow free-spooling and to save energy.
 - l. Inspect the wire rope. Make sure there are at least 5 wraps of wire rope around the winch drum.
 - m. Drape a blanket or jacket over the wire rope approximately 5 to 6 feet from the hook. Open the hood for added protection.
 - n. Clear the area. Make sure all spectators are back and that no one is directly in front or behind the vehicle or anchor point.
 - o. Begin winching. Be sure that the wire rope is winding evenly and tightly around the drum. The vehicle that is being winched can be slowly driven to add assistance to the winching process. Avoid shock loads; keep the wire rope under tension.
 - p. The vehicle to be winched should be placed in neutral and the emergency brake released. Only release the brake pedal when under full tension. Avoid shock loads to the winch. This can damage the winch, rope and vehicle.
 - q. The winch is meant for intermittent use. Under full load with a single line rig do not power in for more than a minute without letting the motor cool down for a few minutes and then resume the winching operation.
 - r. The winching operation is complete once the vehicle is on stable ground and is able to drive under its own power.
 - s. Secure the vehicle. Be sure to set the brakes and place the vehicle in park.
 - t. Release the tension on the wire rope. The winch is not meant to hold the vehicle for long periods of time.
 - u. Disconnect the wire rope from the anchor.

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- v. Rewind the wire rope. Make sure that any wire already on the drum has spooled tightly and neatly. If not, draw out the wire and re-spool from the point where the rope is tight.
 - w. Keep your hands clear of the winch drum and fairlead as the wire rope is being drawn in.
 - x. Secure the hook and hook strap.
 - y. Disconnect the remote control and store in a clean, dry place.
 - z. Clean and inspect connections and mounting hardware for next winching operation.

WINCH ASSEMBLY AND MOUNTING

1. Your winch is designed with a bolt pattern that is standard in this class of winch. Many winch mounting kits are available that utilize this bolt pattern for the popular vehicles and mounting channels. If you will utilize the mounting channel you must ensure that it is mounted on a flat surface so that the three major sections (motor, drum and gear housing) are properly aligned. Proper alignment of the winch will allow even distribution of the full rated load.
2. Start by connecting the roller fairlead to the mounting channel using 2 each of the cap screw assembly. (Make sure the screw is placed through the mounting channel and roller fairlead from inside the channel. This will allow enough clearance for the winch to be placed in the channel without obstruction.)
3. Assemble the winch to the mounting channel by first pulling and releasing the clutch knob to "CLUTCH OUT" position. Pull out a few inches of cable from the drum and feed the wire loop through the opening in the front of the mounting channel and roller fairlead. Now, using the remaining cap screws assembly secure the winch to the mounting channel.
4. Connect the battery and motor leads as the drawing above. Keep in mind that every type of winch is different each other.



CAUTION – Batteries contain gases which are flammable and explosive. Wear eye protection during installation and remove all jewelry. Do not lean over battery while making connections.

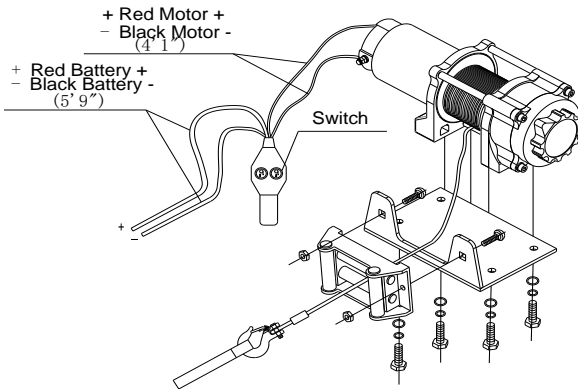
5. Assemble the clevis hook to the cable. Take off the pin from the clevis hook, connect the clevis hook to the cable and mount the pin back to the clevis Hook.
6. Always use the hand saver when free-spooling and re-spooling the wire rope. Using the hand saver keeps your hands and fingers away from the rotating drum.

7. Check for proper drum rotation. Pull and turn the clutch knob to the “CLUTCH OUT” position. Pull out some cable from the drum, and then turn the clutch knob to the “CLUTCH IN” position to engage the gears. Press the cable out button on the power switch. If the drum is turning and releasing more cable then your connections are accurate. If the drum is turning and collecting more cable then reverse the leads on the motor. Repeat and check rotation.

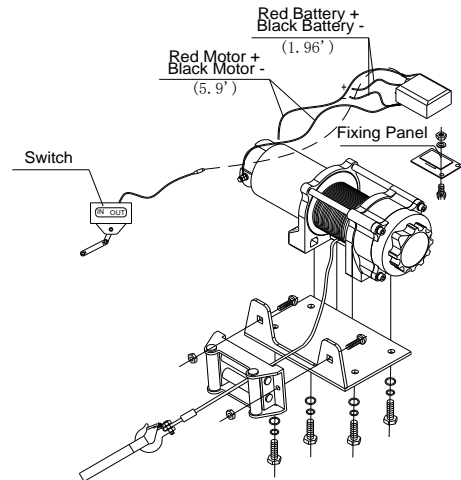
MOUNTING DRAWING

The mounting drawing

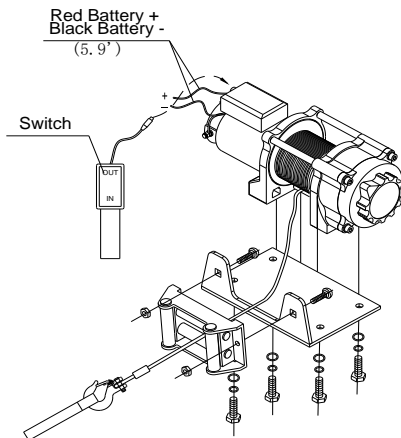
D type



A type



U type



WINCH ACCESSORIES YOU WILL NEED

NOT INCLUDED WITH YOUR WINCH

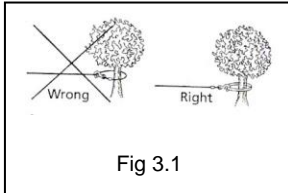
Gloves – For handling the wire rope and hook strap.

Anchor Strap/Chain – Tree saver anchor straps are made of high quality nylon with high tensile strengths from 5,000lbs to 10,000lbs.

Heavy Blanket – place on the cable to absorb energy should the wire rope break.

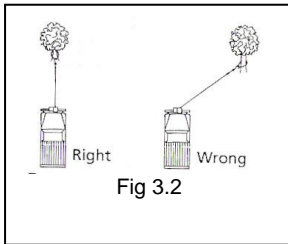
RIGGING TECHNIQUES

Self-Recovery



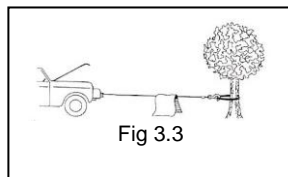
Locate a suitable anchor such as a strong tree trunk or boulder.

Always use a sling as an anchor point. **⚠ CAUTION** Do not attach the clevis hook back onto the cable as this could cause damage to the cable. As shown in Fig 3.1

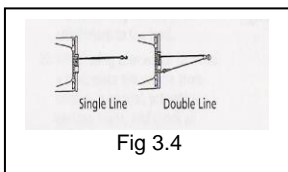


⚠ CAUTION Do not winch from an acute angle as the wire rope will pile up on one side of the drum causing damage to wire rope and the winch. Fig 3.2

Short pulls from an angle can be used to straighten the vehicle. Long pulls should be done with the wire rope at a 90° angle to the winch/vehicle.

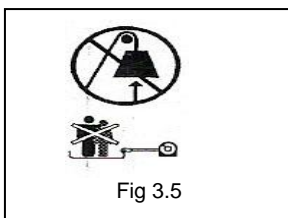


When pulling a heavy load, place a blanket or jacket over the wire rope five or six feet from the hook. In the event of a broken cable it will dampen the snap back. For additional protection open the hood of the vehicle as shown in Fig 3.3



For pulls over 70% rated line pull, we recommend the use of the snatch block/pulley block to double line the wire rope. Fig 3.4

This reduces the load on the winch and the strain on the rope by up to 50% depending on the included angle.



⚠ WARNING - Never use your winch for overhead hoisting or for lifting people or moving people.

WINCH WORKING DEMONSTRATION

1. Disengage the clutch by turning the clutch to the “CLUTCH OUT” position.
2. Grab the cable assembly (Part# P0250400/P0450800) and pull the cable to the desired length, then attach to item being pulled.

⚠ Caution: Always leave at least five turns of cable on the drum; Review winch safety warnings and precautions on page 2、 3 before continuing.

3. Reengage the clutch by turn the clutch handle to the “CLUTCH IN” position, as you need.
4. Insert the switch assembly connector onto the control box.
5. Test-run winch in two directions, each direction for one or two seconds.
6. While standing aside of the tow path, hold and operate the switch assembly supplied by your choice. To reverse directions. Wait until the motor stops before reversing directions.
7. When the pulling is complete, remove the switch assembly From the female connector of the directional valve and replace the female connectors cover.


Note: For D style winch, winch operation is controlled directly not through control box.

REPLACING THE WIRE ROPE

If the wire rope has become worn or is beginning to show signs of strands breaking, it must be replaced before being used again.

1. Turning clutch to the “CLUTCH OUT” position.
2. Extend cable assembly to its full length. Note how the existing cable is connected to the drum.
3. Remove old cable assembly and attach new one as the old cable connected to the drum. Insert the end of the new rope and secure the screw M6x8(Part# P0450012).
4. Ensure that the new cable wraps in the same rotation direction as the old one. The cable should leave the drum from the bottom, under the drum.
5. Turning clutch to the “CLUTCH IN” position.

6. Retract Cable Assembly onto drum, first five wraps being careful not to allow kinking, then winch cable must be wound onto the drum under a load of at least 10% rated line pull.

 **WARNING** - Only replace the wire rope with the identical replacement part recommended by the manufacturer.

MAINTENANCE

1. Periodically check the tightness of mounting bolts and electrical connections. Remove all dirt or corrosion and always keep clean.
2. Do not attempt to disassemble the gearbox.
3. The gearbox has been lubricated using a high temperature lithium grease and is sealed at the factory. No internal lubrication is required.
- 4.

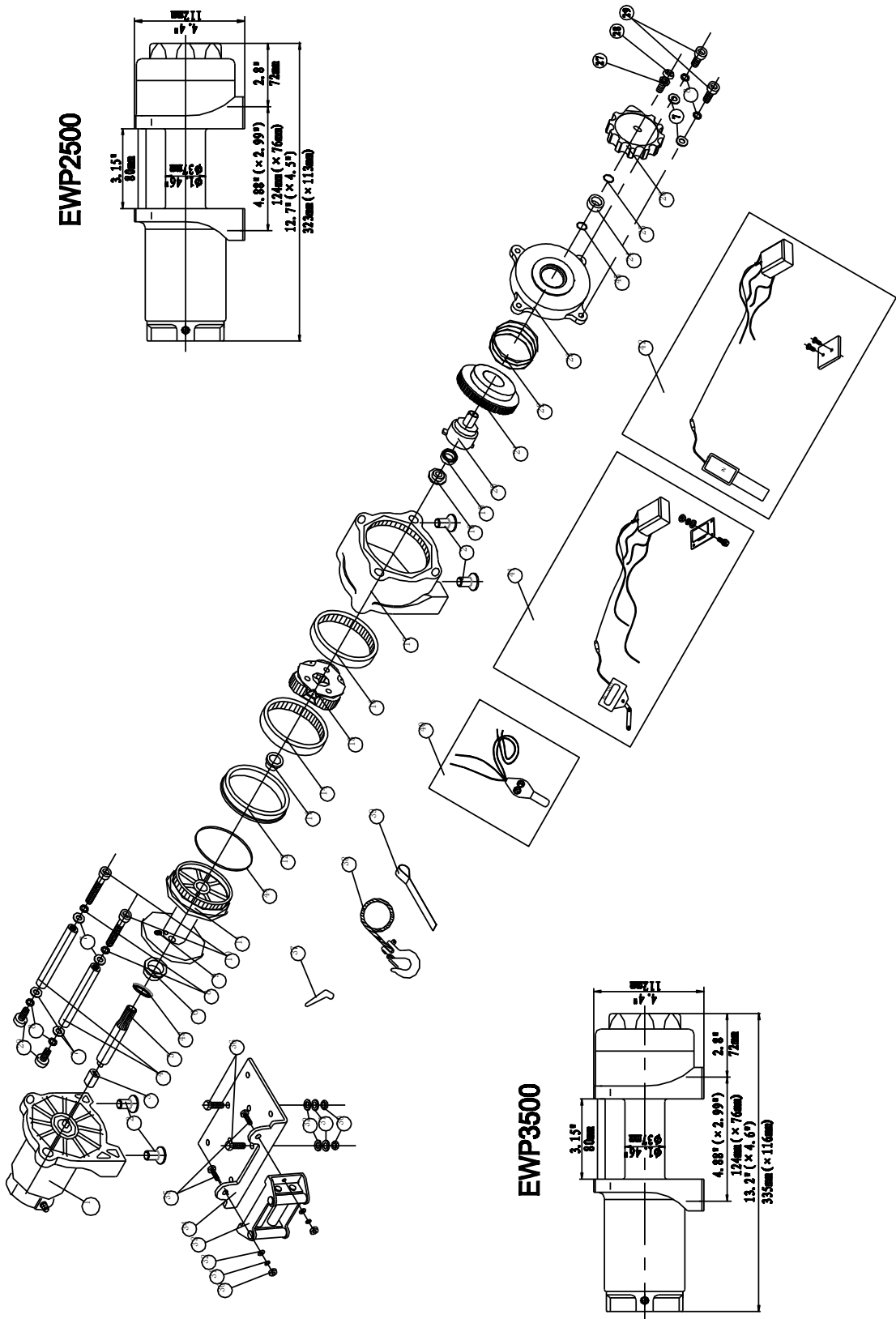
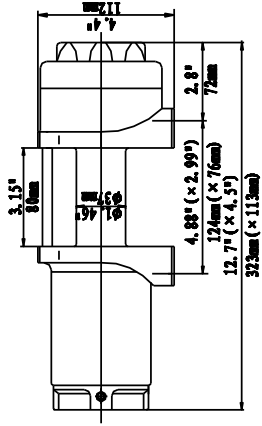
TROUBLE SHOOTING

SYMPTOM	POSSIBLE CAUSE	SUGGESTED ACTION
Motor does not turn on	<ul style="list-style-type: none"> -Switch Assembly connected improperly -Loose battery cable connections -Defective switch assembly -Defective motor -Water has entered motor 	<ul style="list-style-type: none"> -Re-Insert switch assembly into the connector. -Tighten nuts on all cable connections. -Replace switch assembly. -Check for voltage at armature port with Switch pressed. If voltage is present, replace motor. -Allow to drain and dry. Run winch until completely dry.
Motor runs but cable drum does not turn	<ul style="list-style-type: none"> -Clutch not engaged 	<ul style="list-style-type: none"> -Turn clutch to the "In" position. If problem persists, ask a technician to check and repair.
Motor runs slowly or without normal power	<ul style="list-style-type: none"> -Insufficient current or voltage 	<ul style="list-style-type: none"> -Operate winch with vehicle motor running. -Clean, tighten, or replace battery cable connections.
Motor overheating	<ul style="list-style-type: none"> -Winch running for too long 	<ul style="list-style-type: none"> -Allow winch to cool down periodically.
Motor runs in one direction only	<ul style="list-style-type: none"> - Loose or corroded battery cable or motor cable connections. 	<ul style="list-style-type: none"> - Clean and tighten. -Repair or replace switch assembly.

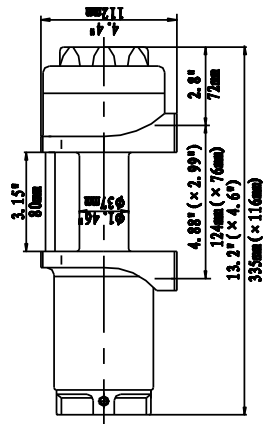
WINCH ASSEMBLY DRAWING

EWP2500/EWP3500

EWP2500



EWP3500



WINCH PARTS LIST (EWP2500/EWP3500)

No.	Part #	Qty	Description	Remark
1	P0250100-D	1	Motor Assembly (Used in EWP2500)	Used in D and A type winch
	P0250100-U			Used in U type winch
	P0350100-D	1	Motor Assembly (Used in EWP3500)	Used in D and A type winch
	P0350100-U			Used in U type winch
2	P0250001	4	Cap Screw M8 x 16	
3	P0250002	1	Transition Shaft	
4	P0250003	2	Tie Bar	
5	P0250004	1	Hexagonal Shaft	
6	P0250005	1	Front Bush Drum	
7	P0250006	6	Thick Flat Washer Φ6	
8	P0250007	6	Locking Washer Φ6	
9	P0250008	1	Screw M6 x 8	
10	P0250009	2	Cap Screw M6 x 70	
11	P0250010	1	Drum	
12	P0250011	1	Rear Bush Drum	
13	P0250012	1	Front Thrust Washer	
14	P0250013	1	Gear Ring Output	
15	P0250200	1	Gear Carrier Assembly	
16	P0250014	1	Gear Ring	
17	P0250015	1	Gear Housing / End Bearing	
18	P0250016	1	Bearing Holder	
19	P0250017	1	Roller Bearing	
20	P0250018	1	Clutch axes	
21	P0250019	1	Cam Clutch Gear	
22	P0250020	1	Spring	
23	P0250021	1	Cover Clutch Housing	
24	P0250022	1	Nylon Bearing	
25	P0250023	1	Elastic Collar	
26	P0250024	1	Clutch Handle	
27	P0250025	1	Locking Washer Φ5	
28	P0250026	1	Cap Screw M5 x 12	
29	P0250027	4	Cap Screw M6 x 25	
30	P0250028	4	Hex Flange Nut M8	
31	P0250029	4	Locking Washer Φ8	
32	P0250030	4	Thick Flat Washer Φ8	
33	P0250300	1	Roller Fairlead	
34	P0250031	1	Mounting Channel	
35	P0250032	2	Cap Screw M8 x 20	
36	P0250033	2	Cap Screw M8 x35	
37	P0250034	2	Terminal Protector	
38	P0250400	1	Cable Assembly	Used in EWP2500
	P0350400			Used in EWP3500
39	P0250035	1	Strap	
40	P0250500	1	Control Section Of D Type Winch	By choice,Used in EWP2500
	P0350500			By choice,Used in EWP3500
41	P0250600	1	Control Section Of A Type Winch	By choice,Used in EWP2500
	P0350600			By choice,Used in EWP3500
42	P0250700	1	Control Section Of U Type Winch	By choice,Used in EWP2500
	P0350700			By choice,Used in EWP3500
43	P0250036	1	Ring Seals	
44	P0250037	1	"O" Ring Seals	
45	P0250038	1	"O" Ring Seals	

WINCH PARTS LIST

EWP4500

No.	Part #	Qty	Description	Remark
1	P0450001	2	Terminal Protector	
2	P0450100-D	1	Motor Assembly	Used in D and A type winch
	P0450100-U			Used in U type winch
3	P0450002	1	Screw M4 x16	
4	P0450003	2	Locking Washer Φ 4	
5	P0450004	1	Stand Bar	
6	P0450005	1	Coupling I	
7	P0450006	1	Spring	
8	P0450007	1	Coupling II	
9	P0450008	1	Spring	
10	P0450009	2	Ring Seals	
11	P0450010	2	Bushing-Drum	
12	P0450011	1	Hexagonal Shaft	
13	P0450012	1	Screw M6 x 8	
14	P0450200	1	Drum Assembly	
15	P0450013	1	End Bearing	
16	P0450014	1	Screw M4 x25	
17	P0450015	1	Gasket	
18	P0450016	1	Gear-Ring	
19	P0450300	1	Gear Carrier Assembly(Output)	
20	P0450400	1	Gear Carrier Assembly(Intermediate)	
21	P0450500	1	Gear Carrier Assembly(Input)	
22	P0450017	1	Gear—Input Sun	
23	P0450018	1	Gasket	
24	P0450600	1	Clutch Handle Assembly	
25	P0450019	4	Thick Flat Washer Φ 6	
26	P0450020	6	Locking Washer Φ 6	
27	P0450021	2	Screw M6 x100	
28	P0450022	4	Screw M6 x25	
29	P0450023	2	Tie Bar	
30	P0450024	2	Hex Flange Nut M10	
31	P0450700	1	Roller Fairlead	
32	P0450025	1	Mounting Channel	
33	P0450026	2	Screw M10 x 20	
34	P0450027	4	Thick Flat Washer Φ 8	
35	P0450028	4	Locking Washer Φ 8	
36	P0450029	4	Screw M8 x25	
37	P0450800	1	Cable Assembly	
38	P0450030	1	Strap	
39	P0450900	1	Control Section Of D Type Winch	By choice
40	P0451000	1	Control Section Of A Type Winch	By choice
41	P0451100	1	Control Section Of U Type Winch	By choice

SPECIFICATION (EWP2500)

Rated line pull	2500 lbs (1134 kgs)		
Motor: permanent magnet	12V:Input: 1.9 kW/ 2.6hp; Output: 0.8 kW/ 1.1hp 24V:Input: 2.4 kW / 3.2hp; Output: 0.9 kW / 1.2hp		
Gear reduction ratio	170:1		
Cable (Dia. × L)	Ø3/16" × 45.9' (Ø 4.8mm × 14.0m)		
Drum size (Dia. × L)	Ø1.46" × 3.15" (Ø 37mm × 80 mm)		
Mounting bolt pattern	3.13" (79.5 mm) 2-M8		
Item	EWP2500D	EWP2500A	EWP2500U
Overall dimensions (L × W × H)	12.7" × 4.5" × 4.4" 323mm × 113mm × 112mm	12.7" × 4.5" × 4.4" 323mm × 113mm × 112mm	13.2" × 4.5" × 6.5" 335mm × 113mm × 165mm
Net weight lbs(kg)	19.8 9.0	20.5 9.3	20.5 9.3

Pull, Speed, Amperes, Volts (First layer):

Line Pull	Line Speed ft/min (m/min)		Current A	
	12V DC	24V DC	12V DC	24V DC
lbs (kgS)				
0	10.2(3.1)	10.5(3.2)	20	16
500(227)	9.8(3.0)	10.2(3.1)	55	35
1500(680)	7.5(2.3)	9.2(2.8)	95	65
2500(1134)	4.3(1.3)	8.2(2.5)	160	100

Line Pull And Rope Capacity In Layer

Layer	Rated line pull lbs (kgs)	Total rope on the drum ft (m)
1	2500(1134)	6.9(2.1)
2	2033(922)	15.1(4.6)
3	1713(777)	24.3(7.4)
4	1480(671)	34.1(10.4)
5	1303(591)	45.9(14.0)

SPECIFICATION (EWP3500)

Rated line pull	3500 lbs (1588 kgs)		
Motor: permanent magnet	12V:Input: 2.4kW / 3.2hp; Output: 1.0 kW / 1.3hp 24V:Input: 2.9 kW / 3.9hp; Output: 1.2KW / 1.6hp		
Gear reduction ratio	170:1		
Cable (Dia. × L)	Ø 7/32" × 42.0' (Ø 5.4mm × 12.8m)		
Drum size (Dia. × L)	Ø 1.46" × 3.15" (Ø 37mm × 80 mm)		
Mounting bolt pattern	3.13" (79.5 mm) 2-M8		
Item	EWP3500D	EWP3500A	EWP3500U
Overall dimensions (L × W × H)	13.2" × 4.6" × 4.4" 335mm × 116mm × 112mm	13.2" × 4.6" × 4.4" 335mm × 116mm × 112mm	13.7" × 4.6" × 6.5" 348mm × 116mm × 165mm
Net weight lbs(kg)	21.3 9.6	22.0 10.0	22.0 10.0

Pull , Speed, Amperes, Volts(First layer):

Line Pull lbs (kgs)	Line Speed ft/min(m/min)		Current A	
	12V DC	24V DC	12V DC	24V DC
0	10.2(3.1)	10.5(3.2)	20	16
1000(454)	8.9(2.7)	9.5(2.9)	75	40
2000(907)	7.5(2.3)	8.9(2.7)	130	75
3500(1588)	4.6(1.4)	7.5(2.3)	200	120

Line Pull And Rope Capacity In Layer

Lay of wire rope	Rated line pull lbs(kgs)	Total rope on the drun ft(m)
1	3500(1588)	5.9(1.8)
2	2789(1265)	13.5(4.1)
3	2319(1052)	22.0(6.7)
4	1984 (900)	31.2(9.5)
5	1733 (786)	42.0(12.8)

SPECIFICATION (EWP4500)

Rated line pull	4500 lbs (2041 kgs)		
Motor: permanent magnet	12V:Input: 2.5kW / 3.4hp; Output: 1.1 kW / 1.4hp 24V:Input: 2.6kW / 3.5hp; Output: 1.2kW / 1.5hp		
Gear reduction ratio	166:1		
Cable (Dia. × L)	Ø 15/64" × 47.6' (Ø 6mm × 14.5m)		
Drum size (Dia. × L)	Ø 2.0" × 4.9" (Ø 50.4mm × 125mm)		
Mounting bolt pattern	6.6" × 3" (168mm × 76.2mm)4-M8		
Item	EWP4500D	EWP4500A	EWP4500U
Overall dimensions (L × W × H)	16.1" × 4.92" × 4.85" 408mm × 125mm × 123mm	16.1" × 4.92" × 4.85" 408mm × 125mm × 123mm	16.1" × 4.92" × 6.6" 408mm × 125mm × 168mm
Net weight lbs(kg)	333 15.1	342 15.5	342 15.5

Pull , Speed, Amperes, Volts(First layer):

Line Pull	Line Speed ft/min(m/min)		Current A	
	12V DC	24V DC	12V DC	24V DC
lbs (kgs)				
0	12.8(3.9)	13.2(4.0)	28	14
1000(454)	9.8(3.0)	10.9(3.3)	80	50
2000(907)	8.5(2.6)	9.4(2.9)	120	70
3000(1361)	6.9(2.1)	7.6(2.3)	160	95
4500(2041)	4.6(1.4)	5.5(1.6)	220	110

Line Pull And Rope Capacity In Layer

Lay of wire rope	Rated line pull lbs(kgs)	Total rope on the drum ft(m)
1	4500(2041)	12.2(3.7)
2	3841(1742)	26.2(8.0)
3	3310(1501)	41.9(12.8)
4	2907 (1319)	47.6(14.5)