

# **ELECTRICAL WINCH**

**EWD8000**

**EWD10000**


**EWD12000**

**Assembly & Operating Instructions**



## **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. Runva EWD series is part of our new product line with several patented technologies and has its own salient features: two speeds, single shaft clutch and speed control, and automatic reducer gear engagement. There are three positions of reducer gear engagement, high gear, low gear, and free spool. This new technology has made Runva winches the pinnacle in user convenience and reliability. You will take pride in knowing that your new winch has been designed to work as hard as you and that it will be there when you need it. This winch is engineered for maximum line pull with only one layer of cable spooled onto the winch drum (the first layer).
2. Motor: Your motor is powered by a 12/24 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.




 **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 rated capacity for the wire rope and drum.


 **WARNING** – Do not exceed 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 or speed shaft, 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.
- 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 clear and never step over the wire rope.
- k. Double-check your anchors and make sure all connections are secure.
- 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.

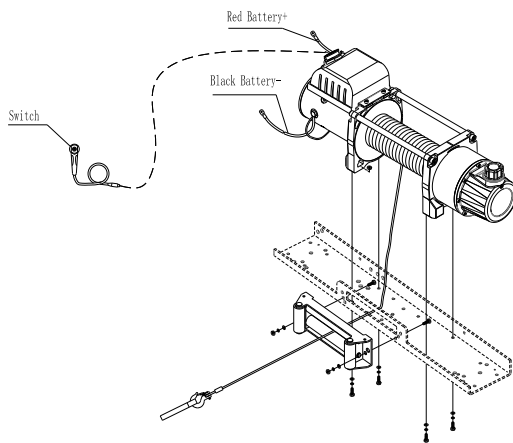




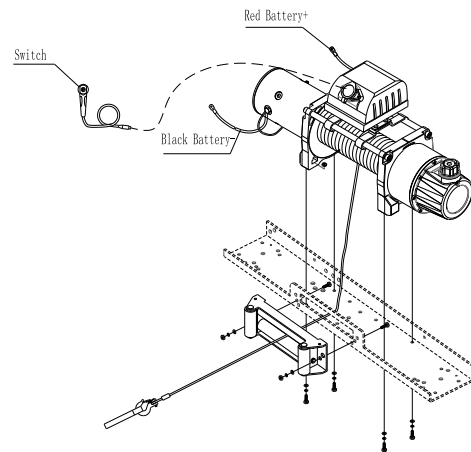
7. Always use the Hand Saver when free-spooling and spooling the wire rope. Using the Hand Saver keeps your hands and fingers away from the rotating drum.
8. Check for proper drum rotation. Pull and turn the clutch knob to the “Free Spooling” position. Pull out some cable from the drum, and then turn the clutch knob to the “High Speed” 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**

**U type**



**S type**



**F type**

