

## Runva EWK 8000U

# Runva EWK 8000U 12V Electric Winch User Manual

## 1. INTRODUCTION

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### 1.1 Product Overview

The Runva EWK 8000U 12V Electric Winch is engineered for demanding pulling applications, offering a robust solution with a rated line pull of 8,000 lbs (3636 kg). Constructed from durable alloy steel, this winch incorporates a patented three-stage planetary gear reducer with full steel gears, ensuring reliable and long-lasting performance. It operates on a 12V power supply, featuring a motor with 4.3 kW input and 1.4 kW output, and a gear reduction ratio of 210:1 for efficient torque delivery. Key operational features include a free spooling clutch for rapid cable deployment and an automatic screw cone braking system for secure load holding.

### 1.2 Key Features

- **Runva Patented Three-Stage Planetary Gear Reducer:** Ensures high efficiency and durability.
- **Full Steel Reducer Gear:** Provides enhanced strength and longevity.
- **Free Spooling Clutch:** Allows for quick manual unspooling of the cable.
- **Automatic Screw Cone Braking Action:** Securely holds the load when the winch motor is stopped.
- **High Rated Line Pull:** 8000 lbs (3639 kg) capacity.
- **Powerful 12V Motor:** Input 4.3kW/5.5hp, Output 1.4kW/1.9hp.
- **Optimal Gear Reduction:** 210:1 ratio for effective pulling power.
- **Durable Steel Cable:** 8.3mm diameter x 29 meters length.

## 2. SAFETY INFORMATION

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Always prioritize safety when operating the winch. Failure to follow safety guidelines can result in serious injury or property damage.

- **Read the Manual:** Thoroughly read and understand all instructions before installation and operation.
- **Wear Protective Gear:** Always wear heavy-duty gloves and eye protection when handling the winch cable and hook.
- **Keep Clear:** Ensure all bystanders are at a safe distance from the winch and cable during operation. Never

step over a tensioned cable.

- **Do Not Overload:** Never exceed the rated line pull capacity of the winch.
- **Inspect Regularly:** Before each use, inspect the winch, cable, hook, and mounting hardware for any signs of damage or wear. Replace damaged components immediately.
- **Secure Mounting:** Ensure the winch is securely mounted to a structure capable of withstanding the maximum pulling force.
- **Electrical Safety:** Disconnect power before performing any maintenance or installation. Ensure all electrical connections are clean, tight, and properly insulated.
- **Avoid Shock Loading:** Do not use the winch to jerk or snatch loads. Apply tension smoothly.
- **Cable Management:** Always keep at least five wraps of cable on the drum to prevent the cable from detaching.

### 3. PACKAGE CONTENTS

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Verify that all components are present and undamaged upon unpacking.



**Figure 1:** Illustration of the Runva EWK 8000U winch kit components, including the winch unit, wired remote control, roller fairlead,

hook, and various cables and mounting hardware.

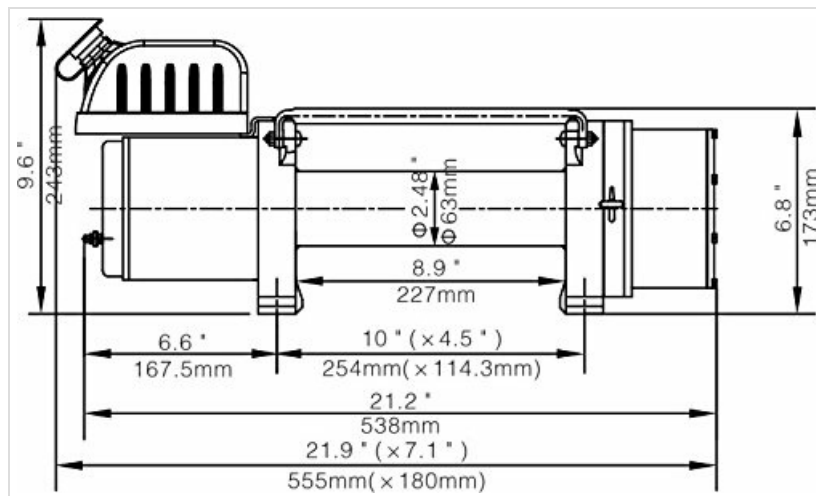
- Runva EWK 8000U Winch Unit with Steel Cable
- Wired Remote Control
- Roller Fairlead
- Heavy-Duty Hook
- Power Cables
- Mounting Hardware (bolts, nuts, washers)

## 4. SETUP AND INSTALLATION

### 4.1 Mounting the Winch

The winch must be securely mounted to a flat, rigid surface capable of supporting the full rated load. The standard mounting bolt pattern for the EWK 8000U is 10 inches by 4.5 inches (254mm x 114.3mm).

1. Identify a suitable mounting location on your vehicle or structure. Ensure there is adequate clearance for the winch, cable, and fairlead.
2. Drill four holes according to the 10" x 4.5" bolt pattern.
3. Position the winch and secure it using the provided high-strength bolts, washers, and nuts. Tighten all fasteners to the manufacturer's specifications.
4. Install the roller fairlead to guide the cable smoothly and reduce wear.



**Figure 2:** Technical diagram illustrating the dimensions of the Runva EWK 8000U winch, including overall length, width, height, drum size, and mounting bolt pattern. All measurements are provided in both inches and millimeters.

### 4.2 Electrical Connection

Connect the winch to a 12V DC power source, typically a vehicle battery. Ensure all connections are clean, tight, and protected from corrosion.

1. Connect the **RED** positive (+) cable from the winch motor to the positive (+) terminal of the battery.
2. Connect the **BLACK** negative (-) cable from the winch motor to the negative (-) terminal of the battery or a suitable chassis ground point.
3. Ensure all connections are secure and insulated to prevent short circuits. Use appropriate cable gauges as specified by the manufacturer to handle the winch's current draw.

## 5. OPERATING INSTRUCTIONS

## 5.1 Engaging/Disengaging Free Spool

The free spool clutch allows for quick manual unspooling of the cable without using motor power.

- **To Engage Free Spool:** Rotate the clutch lever to the