BEFORE YOU BEGIN



This manual is intended for use by a WARN authorized service technician. It is important to make repairs with the proper tools and equipment.

⚠ WARNING Read all instructions and safety information provided. Failure to do so, may cause the winch to fail, leading to personal injury. For full winch operation and techniques, as well as other product specific literature, visit www.warn.com.

This manual covers the:

- EVO Winch 8, 10, 12

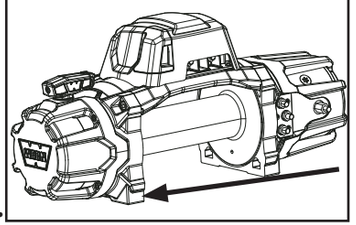
SECTION 1 - GETTING STARTED

1.1 Identification

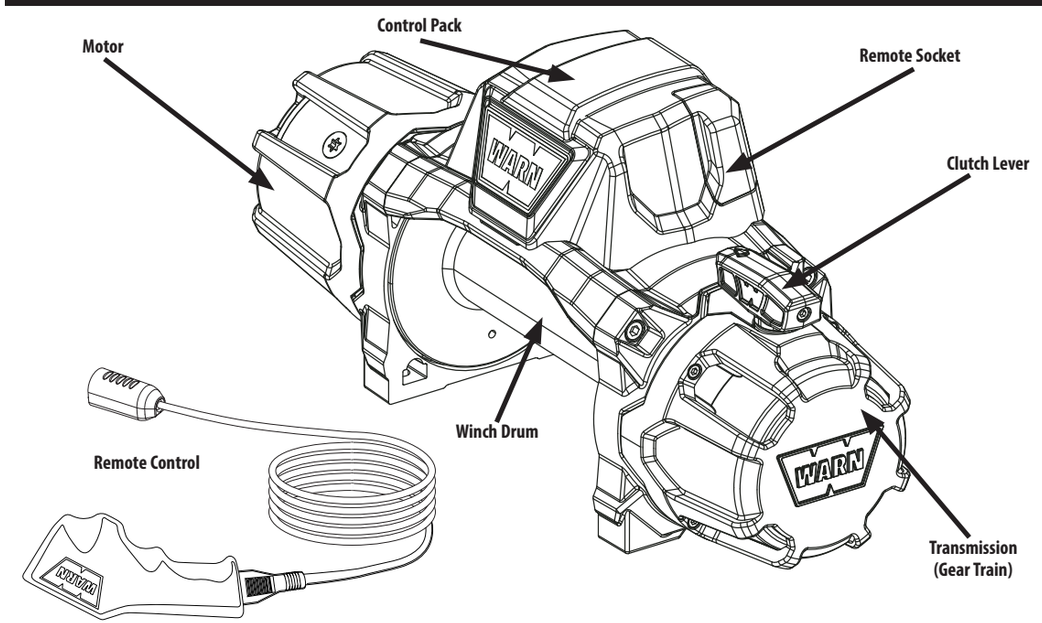
To ensure proper winch repair, it is necessary to correctly identify the model and part number of your winch. This makes ordering replacement parts easier and helps you obtain the necessary information from WARN customer service at 1-800-543-9276.

NOTE: For a part description, item number and quantity, refer to the Replacement Parts List for your specific winch model at www.warn.com.

Winch serial number:
The serial number is stamped on the drum support.



EVO



1.2 Definitions

1.2.1 Definitions

Operation and service of a Warn planetary winch can be explained easier by defining a few major structural components. Refer to Figure 1.2 for the following definitions:

MOTOR: The electric winch is driven by a high speed, low torque electric motor. A 12-volt DC vehicle battery generally powers the electric motor.

REMOTE SOCKET: The remote socket is where the operator plugs in the wired remote control in order to control the winch.

WINCH ROPE: The winch rope's diameter and length are determined by the winch's load capacity and design. Wrapped around the winch drum and fed through the fairlead, the winch rope is looped at the end to accept the hook's clevis pin.

Synthetic winch rope is constructed of a unique ultra high molecular weight polyethylene material and offers tremendous tensile strength. It is coated with a high temperature urethane and equipped with a temperature resistant sleeve on the first layer for added protection. The synthetic rope's high flexibility and low weight make it much easier to handle out in the field.

WINCH DRUM: The winch drum is the cylinder onto which the winch rope feeds. The drum is driven by the motor and drive train. Its direction can be changed using the remote control.

DRUM SUPPORTS: Drum supports are the structural components of the winch that mount the winch to the vehicle. The drum rotates while being held by the drum supports and both the motor and gear train are attached to a drum support.

GEAR TRAIN: Warn electric planetary winches consist of a gear train made up of three planetary gear stages. The purpose of the gear train is to multiply motor torque and to reduce motor speed transmitted to the drum. Warn gear trains are enclosed in a housing and are lubricated with grease.

CLUTCH LEVER: The clutch lever allows the operator to manually disengage and engage the winch drum from the geartrain. Disengaging the clutch enables the drum to rotate freely (known as "freespooling"). Engaging the clutch "locks" the winch drum back onto the gear train.

CONTROL PACK: Using electrical power from the vehicle's battery, the control pack's contactor switches power to the motor, enabling the operator to change the direction of the winch drum rotation.