



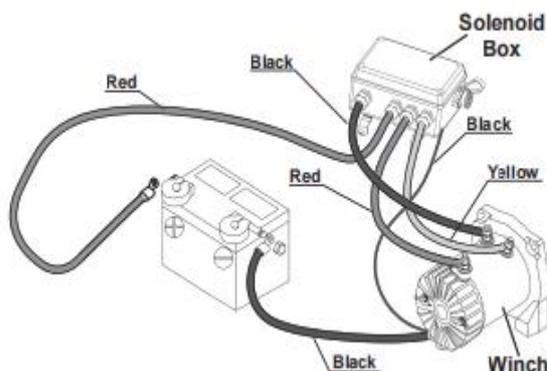
Installation Instructions

13000/10000lb. Winches

Electrical Connection

Pay close attention to proper electrical cable connection as follows (Refer to diagram 1)

1. Short red cable connecting to the red terminal of the motor.
2. Short black cable with yellow jacket connecting to the yellow terminal of the motor.
3. Short black cable with black jacket connecting to the black terminal of the motor. The thin black cable connecting to bottom terminal of the motor
4. Long black cable (1.8m), one terminal connecting to the bottom terminal of the motor, and the other terminal negative (-) connecting to negative (-) terminal of battery.
5. Long red cable positive (+) connecting to positive (+) terminal of battery.



1. Long black cable (1.8m), one terminal connecting to the bottom terminal of the motor, and the other terminal negative (-) connecting to negative (-) terminal of battery.
2. Long red cable positive (+) connecting to positive (+) terminal of battery.





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Note: The attachment of the Motor Cables determines the direction of the Pendant Controller's button. After the unit is mounted and powered, check the direction of the Power In and Power Out on the Pendant Controller button. If you wish to change the direction on the Pendant Controller, disconnect the Battery Cables from the battery, switch the Motor Cable connections on the Motor Assembly, then reconnect the Battery Cables.

Installing the control box

It is recommended to install your winch control box prior to installing your winch.

You may install the control box in a separate location using 3-4 AWG marine cable (not included)

Determine if you want your control box located over the motor (side) or the drum (Center)

When the winch is used, the force of the rope on the outermost ring of the winch is the smallest. When the rope is gradually released, the force of the rope is the largest. When the winch line appears red (the maximum length of the rope can be placed), the force of the rope is the largest.

When the winch is not used in a straight and horizontal state, the tension of the winch will be reduced, the winch is not recommended when the crane is used, that is, upside down.

About the winch noise

The first point is that the winch factory should conduct a noise test before leaving the winch factory. The noise test has a range. The difference in winch components leads to a difference in winch sound, but it is definitely within this range. And for further accuracy, the winch factory will be stricter on the decibel of noise, the standard is 1 meter range of 90db.

Second, the noise is mainly caused by gear friction. In addition to the normal noise, if there is abnormal sound, it may be due to the running in between the gears, part of the gear anastomosis is not enough.

About the winch rope

When the rope direction is not correct, the rope will be accumulated in a certain position of the drum, so that the rope stuck or locked, this time the winch motor turns, but the drum does not turn, this contradiction in the winch will appear overload damage.