

Installation Instructions

C129.003 Electric Gym Divider Winch

Caution

- ① As with any lifting device, the installation shall be made only by persons suitably experienced and qualified for work on hoisting equipment, in accordance with local requirements.
- ② The electrical supply and connection to the winch shall be made in accordance with local electrical code and by qualified personnel.
- ③ These instructions address the areas of proper mounting, rope installation, wiring and limit switch adjustment, but they are not intended to cover every aspect of installation of your hoisting system nor to replace the need for normal good care, workmanship and proper practices on the part of the installer.

Mounting Winch

A choice of 2 sets of mounting flanges is provided to allow flexibility in mounting the unit. Either four-bolt pattern may be used (see Fig. 1).

Draper's gym divider winch may be mounted in any position as it is designed to lift the curtain while turning in either direction and because it is free of lubricating oil.

The fastener type and size required will vary according to the type of mounting surface but must be adequate to safely sustain all loads imposed by the curtain system. The dealer and the architect/engineer for the building should be consulted to determine the proper method of mounting and size of fastener necessary.

Do not use long extension cords to power the winch. Use a minimum of 14/3 gauge wire, a maximum of 100', while initially connecting the winch during installation. Running the winch under bad power-voltage conditions will result in overheating and damage to the capacitors.

Please Note: Do not overtighten U-Bolts if used; overtightening can cause deflection and weakening of the bolts, and damage to the unit.

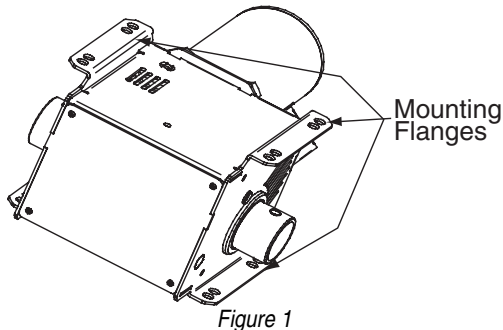


Figure 1

Winch Wiring (see Wiring Diagram on page 2)

Two 7/8" diameter knock-outs are provided, one on each side of the winch, to accept 1/2" conduit connectors and provide wire access to the electrical compartment at the bottom of the winch case (see Fig. 2).

Remove the 4 screws securing the limit cover and remove the cover. A wiring diagram is on the inside surface of the cover; the same diagram can also be found on page 2 of this document.

Field connections are made directly to the terminal block provided.

The limit switches are located in the same compartment.

Please Note: The winch limit switches are pre-wired at the factory. Do not test-run the winch with the limit switches by-passed as this may cause over-travel of the limit mechanism and result in damage to the winch. Make certain that there is at least one half inch of limit nut travel remaining after the limit switch has tripped. In the event of a possible limit switch failure this will allow the operator time to release the key switch long before an over-travel condition is reached, avoiding damage to the winch, the curtain or the structure.

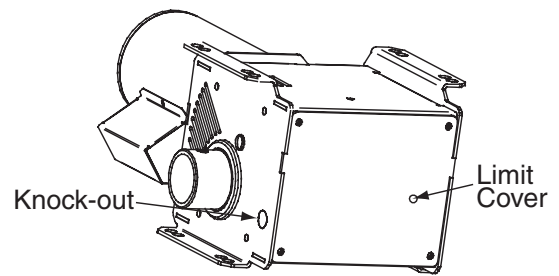


Figure 2

Limit Switch Adjustment (See Fig. 3)

Please Note: Two travel limit switches are provided. Which becomes the Upper one and which is the Lower one depends on the direction of rotation of the winch drum while the curtain is being raised. This is determined by the needs of each installation.

Caution: Be careful to check which switch is for Upper and which for Lower before adjusting them. Failure to do this could result in damage to the winch or the curtain system as it will over-travel because of having adjusted the wrong switch. Always shut power off from the winch when working inside the electrical compartment.

The cover has been designed for quick removal to simplify limit switch adjustment.

- ① Run the winch in the "up" direction to raise the divider curtain to the desired (fully raised) position and stop it in this position. Turn off the power to the winch and remove the electrical compartment cover. (4 screws)
- ② Loosen the two thumb nuts holding the upper limit switch.
- ③ Slide the upper limit switch across until the blade contacts the limit trip rod, then slide it a little further until an audible click is heard as the switch opens. Tighten the thumb nuts. The top limit is now set.
- ④ Temporarily install the cover and run the divider curtain down to the desired lower stop position and set the lower limit switch in the same way.
- ⑤ Run the curtain up and down again to check the settings
- ⑥ Make a final check to make sure that all fasteners are tight before putting the winch into use.

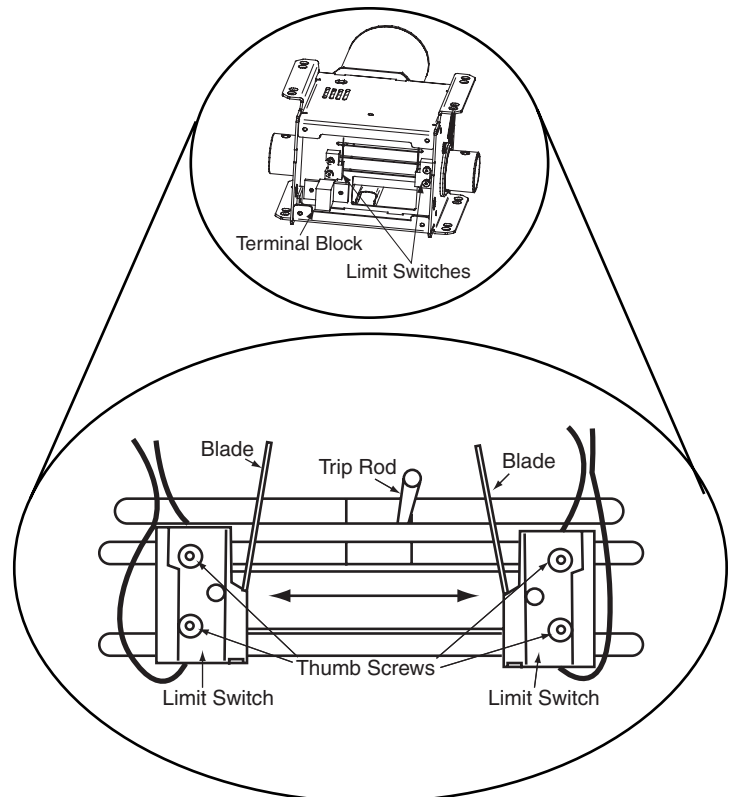


Figure 3

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If you encounter any difficulties installing or servicing your Winch, call your dealer or Draper, Inc., Spiceland, Ind., (765) 987-7999 or fax (765) 987-7142.

Emergency Lowering of Divider Curtain in Case of Power Failure—

If the winch is not able to be used because of a power failure, etc., it is possible to turn the winch manually to lower the curtain.

The winch motor comes standard with an internal thread in the end of the shaft, behind the removable end cap.

- ① Remove the end cap by prying it off with a flat screwdriver (see Fig. 4).
- ② Screw a $\frac{5}{16}$ " socket head cap screw or a $\frac{5}{16}$ "-18 coarse thread hex bolt into the threaded hole in the shaft. Turning the screw will slowly lower the curtain.

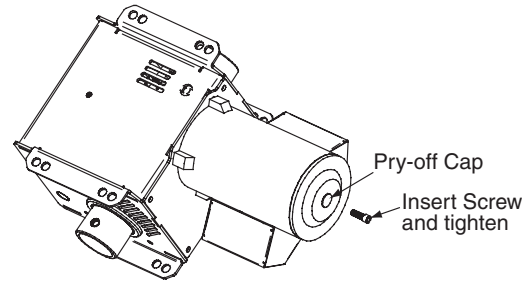


Figure 4

Wiring Diagram

