

Michel's

GRAVEL GUARD

ELECTRIC OPTION

INSTALLATION INSTRUCTIONS

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PLEASE READ ENTIRE INSTRUCTIONS BEFORE BEGINNING

PLEASE FORWARD ONTO TO THE END USER

When tarp is installed, keep the tarp all the way open or closed when driving. Failure to do so will result in premature wearing of the tarp and cables and will void warranty

Step 8: Electric Motor Installation

(See Figure 19-22)

Note: The 4" sprocket (S) is to be located on the passenger side of the front shaft (see Figure 19).

Procedure: Mount the motor bracket (Q) on the front passenger side of the trailer. Hang the chain (T) from the front shaft #40x24 sprocket and the #40x24 sprocket (R). Stretch out the chain until the appropriate tension and positioning are achieved. Align the #40x24 sprocket (R) with the #40x24 sprocket (S). Using a 3/8" drill bit, drill through the lower end of the slots in the motor bracket (Q) and through the front of the trailer (see Figure 19). Fasten the motor bracket (Q) and motor tensioner brackets (U) (top of the bracket) to the trailer with the 3/8"x1-1/2" hex bolts, 3/8" flat washers, and 3/8" nylon lock nuts provided.

Note: Do not tighten the 3/8"x1-1/2" bolts until the correct chain tension is achieved.

Remove the 5/16"x3/4" set screws from the #40x24 sprocket (R). Mark the location of the set screw holes. At the marked location, using a 5/16" drill bit, drill into the chrome shaft approximately 1/4" deep. Tighten the set screws.

Note: Grind a small area of chrome off the shaft where drilling is required.

Adjust the positioning of the motor tensioner bracket (U) until the chain is tight. Tighten the top bolt closest to the sprocket to tighten the chain. Also tighten the bottom bolt furthest away from the sprocket to keep the bracket square with the shaft. Tighten the 3/8"x1-1/2" motor bracket bolts and tighten the 3/8" hex nuts on both motor tensioner brackets (U) locking the bolts in place. After the motor bracket has been fastened to the trailer, attach the motor bracket cover (V) using the 1/4"x1" lag screws provided (see Figure 24). Do not put a lag screw on the front face on the motor side since you will drill into the motor

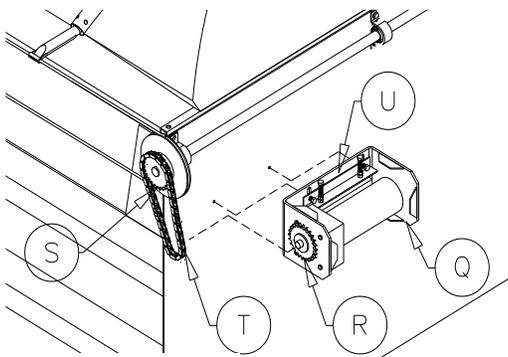


Figure 19

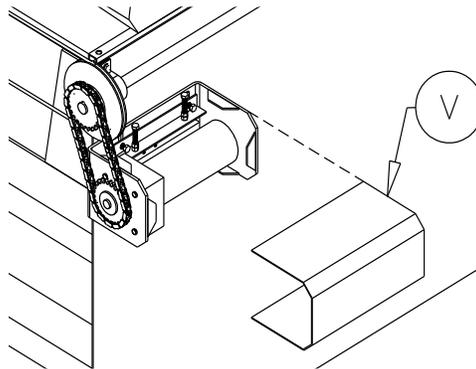


Figure 20

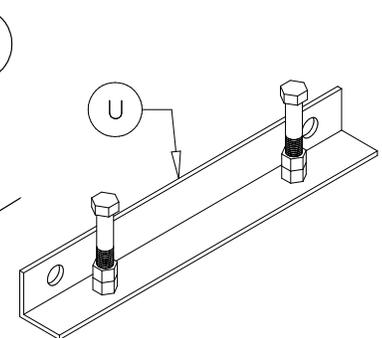


Figure 21

Step 9A: Rocker Switch Electrical Installation

(See Figure 22)

Note: Apply the supplied Dielectric lubricant to all wire connections when each wire is hooked up. The Dielectric lubricant will help to prevent corrosion.

Procedure: Attach the longest length of #6 double strand wire to the electric motor. There are four wires coming out of the motor. Connect a 14G wire with a 22G wire and then to one of the #6 wires running to the cab/trailer socket. Repeat for the other two wires. The 22G wires are to release the brake and the 14G wire supplies the motor with power. Splice a

25amp circuit breaker in line with one of the #6 wires at the motor. Run the wire down the front of the gravel trailer and along the box frame to the rear pivot point of the trailer. Fasten the wire with the 3/4" wire clips and 1/4" lag screws provided. Space the wire clips at approximately 3ft apart. From the pivot point run the wire along the trailer frame to the front of the trailer. Fasten the female 2 pole connector (W) to the front of the frame (see Figure 22). Attach the #6 double strand wire to the female connector. Note: Fasten the #6 double strand wire in obstruction free areas or else the wire will be severed when the hoist is raised. Mount the solenoid on the truck frame near the batteries / cab. Run #6 double strand wires from the solenoid along the truck frame to the 2 pole male connector at the back of the truck. Connect the motor wires to the "IN" & "OUT" on the solenoid. Install a black rubber boot on each wire. If not on a trailer, the #6 double strand wire would run straight from the motor to the solenoid. Run #6 double strand wire from the solenoid to the battery. Connect the positive red wire to the "+" post on the solenoid alone with a red rubber boot and connect the negative wire to the "-" post with a black rubber boot. Install a 25amp circuit breaker in line with the positive wire. Mount the rocker switch in an obstruction free area in your cab. Run the 14-3 wire from the switch to the solenoids. You may have to switch the two outside wires on the switch if the tarp is running backwards.

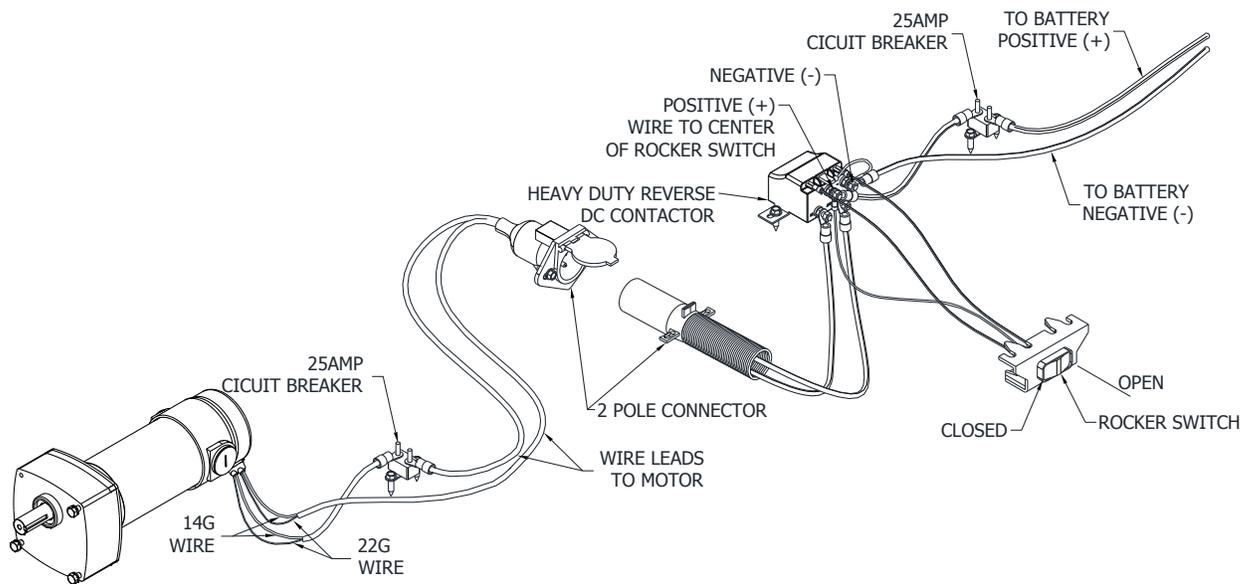


Figure 22

******* 25 AMP CIRCUIT BREAKERS HAVE TO BE USED OR WARRANTY WILL BE VOID *******

Warranty: Michel's Industries warrants their products for a period of one year from date of purchase. Any parts returned to Michel's Industries LTD. Will be shipped prepaid and will be returned F.O.B. St.Gregor, Sk. Canada. We will not assume responsibility for shipping, labor or travel expenses.

Note: We reserve the right to make improvements; therefore, specifications are subject to change without notice.

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FOR INSTALLATION ASSISTANCE PLEASE CALL (306) 366-2184