

# Michel's Select Sidewinder

## INSTALLATION INSTRUCTION

### (800 & 1150 Degelman Grain Cart)

**PLEASE READ ENTIRE INSTRUCTIONS BEFORE BEGINNING**

#### **Step 1: Front Hood Installation**

(See Figure 1)

**Procedure:** Center the front hood unit on the front wall of the cart, with the lower 1" flange (A) positioned flush against the outside front edge of the box. Using a 3/16" drill bit. Drill 18 holes through the 3/4" flange and into the box wall (B), placing 2 holes at approximately every 15 inches as shown in Figure 1. Secure the front hood using the 1/4"x1" self-tapping lag screws (C) provided. Drill through the top horizontal portion on each side of the front hood and secure using 1/4"x1" self-tapping lag screws.

#### **Step 2: Rear Hood Installation**

(See Figure 1)

**Procedure:** Center the rear hood unit on the rear wall of the trailer with the lower 1" flange positioned flush against the outside rear edge of the trailer.

**Note:** Continue from Step 1 to complete the rear hood installation.

#### **Step 3: Ratchet and Strap Installation**

(See Figure 2)

**Procedure:** Insert the bar-hooks through the washer welded to the front (E) and rear (F) hood. The location of the ratchet (D) is not critical. Adjust the straps so they are reasonably tight. Do not over-tighten or the front and rear hood will warp.

#### **Step 4: Hoop Installation**

(See Figure 3)

**Procedure:** Equally space the hoop holders (G) along the length of the box and locate the top edge of the hoop holder 1" down from the top edge of the inside grain cart wall. Once in place mark the position of the hoop holder and drill two 3/16" holes into the cart wall. Secure the hoop holder using the 1/4"x1" self-tapping lag screws (H). Follow this procedure for the remaining hoop holders making sure that they are at the same level, equally spaced, and directly across from each other. Insert hoop (I) into hoop holders. Then lay a straight edge across the top of the cart. Measure the distance from the straight edge to the top center of the front and rear hood. Record this distance. Measure the vertical distance from the straight edge to the top center of the hoop. The measurement to the top of the hoop should be 3/4" greater than the distance from the straight edge to the top of either hood. Adjust the hoop until the correct distance is achieved.

#### **Step 5: Holdback (Tension Control Unit) & Filler Plate Installation**

(See Figure 4)

**Note:** Standard Rolling Tarps have the Holdback System mounted on the driver's side. Reverse Rolling Tarps have the Holdback System mounted on the passenger side.

**Procedure:** To mount the front (J) and rear (K) holdbacks, clamp the top flange 1/4" lower than the upper edge of the cart. Be sure that the 1 1/4" square tubing is facing down. Make sure that the insert plug for the cable is approximately 1/2" past the front/rear of the hood panel. Secure the holdback using 1/4"x1" lags every 15 inches provided. After both holdbacks are secured mount the filler plate (L) flush with the holdbacks.

**Note:** In most cases the filler plate will have to be cut shorter depending on the length of the grain cart.

Figure 1

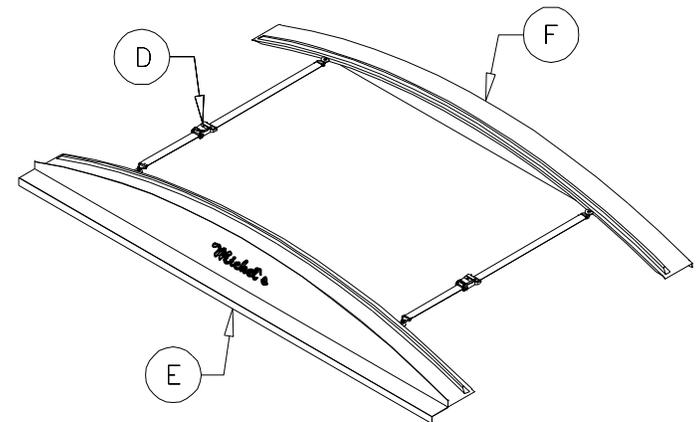
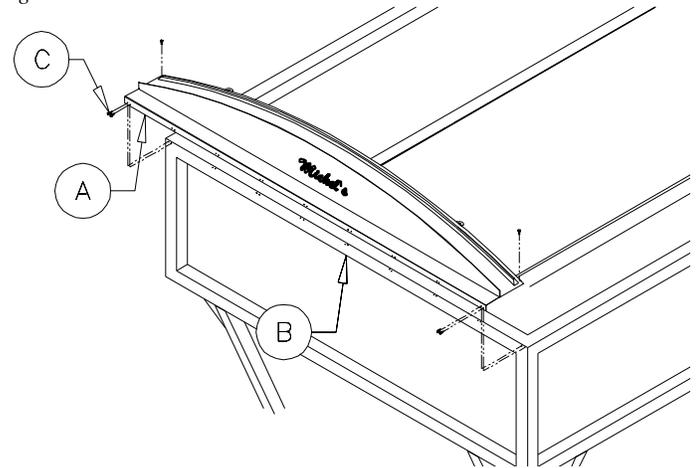


Figure 2

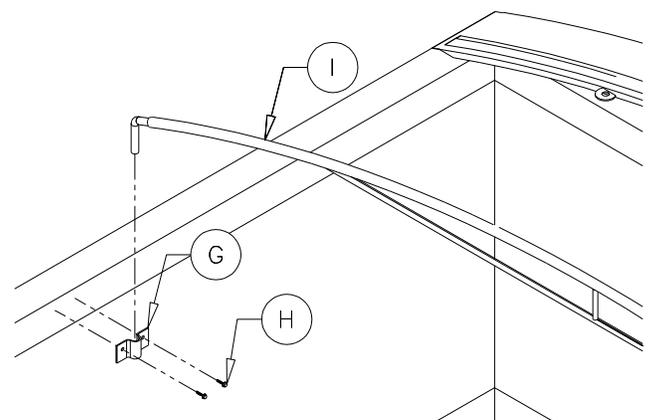


Figure 3

#### **Step 6: Tarp & Tarp Stop Installation**

(See Figure 5 & 6)

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**Procedure:** Raise the roll tube and place it on the top of the box so that it rests on the hoops and hoods located on the driver side (standard rolls would rest on the passenger's side) making sure that the spline (L) is at the rear of the box. Roll out the tarp to the passenger's side (driver side for standard roll) position the tarp so that the material sits 2 inches back from the face of the front hood as shown in Figure 6. The pop rivets holding the tarp to the roll tube should be at a 45-degree angle from the edge of the holdback flange. At this position when the tarp is tightened the rivets will face downward. Once in position pry the roll tube under the holdback's locking flange using 2 x 4 (M) lumbers to hold the roll tube in place. Smoothen the tarp out and apply as much tension to it as possible by pulling down on the loose end of the tarp. The pocket holding the quick release bars (N) should hang down the side of the box approximately 3 to 4 inches. The quick release bar will be held against the side of the box by the tarp stops (O) shown in Figure 6. Make sure the tarp material is 2 inches away from the face of the front hood. Mount the front and rear tarp stops 4 inches in from the edge of the tarp material. Drill a 5/16" hole through the predrilled tarp stop and into the box. Secure the tarp stops using the 3/8" X 1-1/4" self thread bolts provided. The remaining tarp stops are to be centered according to the length of the box. Make sure that the quick release bar is positioned parallel with the box lip.

**Step 7: Round Flip-Release Tarp Stop Installation (OPTIONAL)**

(See Figure 7 - 9)

**Procedure:** Locate the front bracket (P) 10" in from the face of the front hood and 3/4" lower than the top edge of the cart. Using a 5/16" drill bit drill two holes through the predrilled holes in the bracket. Secure bracket to cart using two 3/8" self-threading bolts (Q). Remove the 1/4"x3" hex bolt (R) from the flip-release tarp stop (S). Insert the bolt through the bracket (P) and through the tarp stop (S). Secure the stops using the 1/4" lock nut. Torque the bolt appropriately so the flip-release tarp stop will remain in the unlocked position (See Figure 9). Remove the quick pin from the bottom hole of the flip-release tarp stop and adjust the tarp stop so it is in the unlocked position (See Figure 9). Follow the same procedure for the remaining flip-release tarp stops. Install the rear bracket 10" in from the face of the rear hood and 3/4" lower than the top edge of the cart. Evenly space the remaining flip-release tarp stops along the same side of the cart making sure to mount the brackets 3/4" lower than the top edge of the cart. Position the round pipe (T) in the brackets as shown in Figure 8&9. Adjust the tarp so that it sits two inches back from the wind deflector on the front hood. Once the tarp is in position, engage flip-release tarp stops into the locked position (See Figure 9). Reinsert the quick pins through the bottom holes of the flip-release tarp stops. Roll the tarp to the closed position.

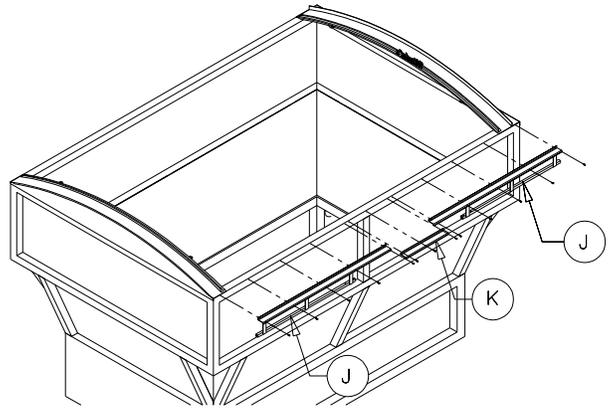


Figure 4

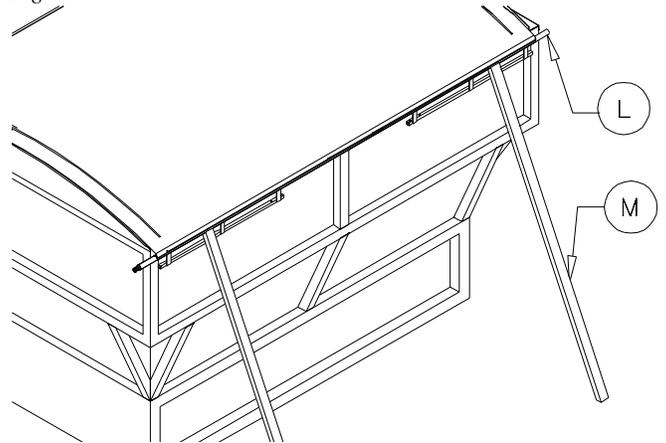


Figure 5

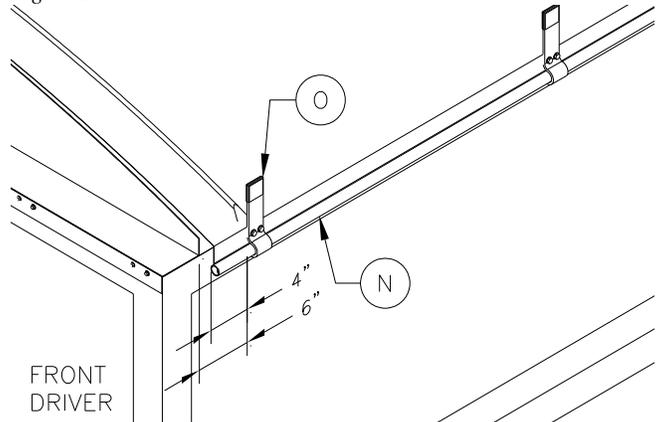


Figure 6

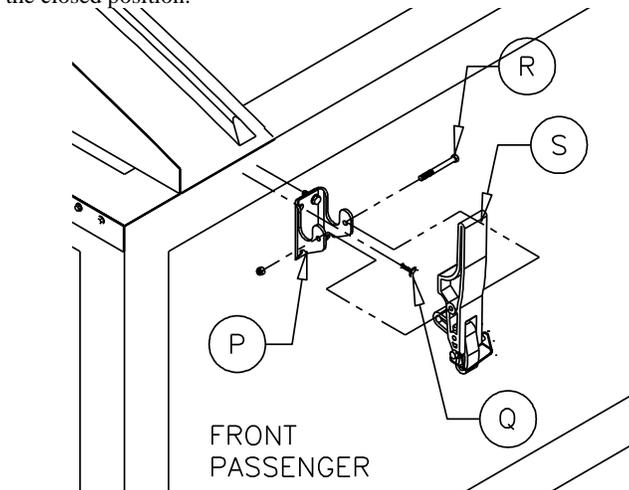


Figure 7 (Optional)

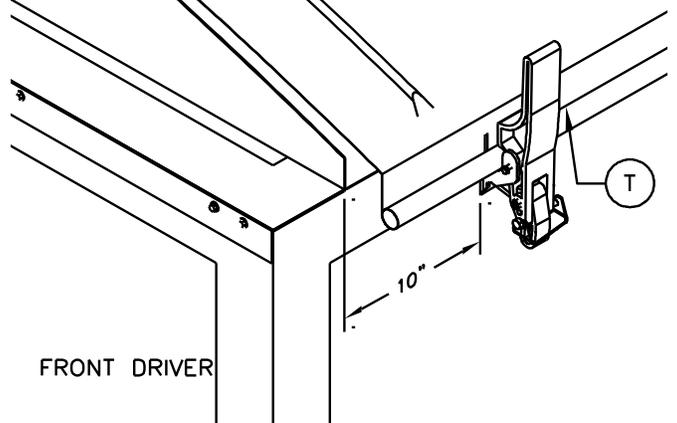


Figure 8 (Optional)

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### Step 8: Crank and Spring Lock Bracket Installation

(See Figure 10 & 11)

**Procedure:** With the tarp roll pried under the holdback-locking flange, slide the open-end rear cable pulley on the roll tube. Slide the universal joint (V) and shaft on the spline (M) so that the end of the crank is on the outside of the grain cart by approximately 1 foot (See Figure 11). Insert quick pin (W) through the universal joint. Slide the crank handle (Y) into the shaft. Remove 2 x 4's and pull crank towards the box to the approximate position of where the spring lock (Z) and bracket will be installed. The crank should have approximately 30-lbs. pressure applied to it. If there is not enough pressure on the crank, the position of the universal joint and crank must be altered. Once the correct position is found, the spring lock and bracket will be installed on the rear driver side corner (See Figure 11). Drill a 5/16" hole through the pre-drilled holes in the spring lock bracket and into the cart and secure with the 3/8" self-threading bolts provided. Lock the tarp in the closed position, engaging the spring lock (Z). Adjust the angle of the spring lock so that the crank handle seats properly in the spring lock. Adjust the length of the crank handle (Y) and drill a 5/16" hole through the shaft and the crank handle. Secure the crank handle to the shaft with the 1/4"x1 3/4" bolt and 1/4" lock nut provided.

### Step 9: Cable Pulley Installation and Tension

#### Control Adjustment

(See Figure 12, 13 & 14)

**Note:** When rolling the tarp to the open position, tension must be kept on the opposite end of the crank to keep the tarp rolling evenly.

**Procedure:** Roll the tarp to the open position. Mount spring lock (Z) and bracket on the rear passenger side corner to accept the crank handle (Y) in the open position (See Figure 12). Secure the spring lock bracket to the cart using the 3/8" self-threading bolts provided. Adjust the angle of the spring lock so the crank handle is seated properly.

**Installing cable onto rear cable pulley:** Pull cable from the rear holdback system towards the open-end rear cable pulley (X). Insert cable end into pulley slot and rotate cable pulley 1 3/4 of a turn from the underside of the pulley. Properly position the cable pulley on the roll tube so that the nylon cable insert (D) on the holdback (C) lines straight up down with the outside edge of the cable pulley (See Figure 14). Tighten the 1/4" x3/8" set screws (A) to hold the pulley in place.

**Installing cable onto front cable pulley:** Slide the closed-end front cable pulley (B) onto the front end of the roll tube. Pull cable from the front holdback system towards the front cable pulley. Repeat the rear cable pulley procedure. Roll the tarp, open and closed several times checking each time to make sure that the tarp rolls evenly. If the tarp does not roll evenly, roll the tarp to the open position, loosen the 1/4"x3/8" set screws on the front and rear cable pulley and increase the cable wrap which will increase the tension. Do not allow the pulley to have less than one complete wrap of cable when it is in the open position.

### Step 10: Roll Tube Lifter and Universal Cable Guide Installation

(See Figure 15)

**Note:** The roll tube lifter (A1) should be against the front hood panel and the round bar of the roll tube lifter should also be against the edge of the hood. The universal guide (B1) should be placed an inch away front the front hood panel and a 1/4" away from the side edge.

**Procedure:** Using a 3/8" drill bit, drill pilot holes into the front hood panel. Then place the roll tube lifter into position and fasten with the 5/16" x 1" hex bolt (E1) provided. Secure with 5/16" washer and 5/16" (C1) nylon nut (D1) provided. Using a 1/4" drill bit, drill pilot holes for the universal cable guide. The universal guide (B1) should be fastened to the front hood (E) with 5/16" x 1-1/4" thread cutters (C), which are provided.

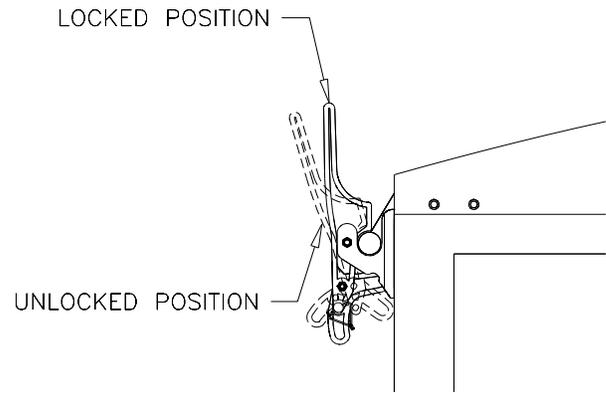


Figure 9 (Optional)

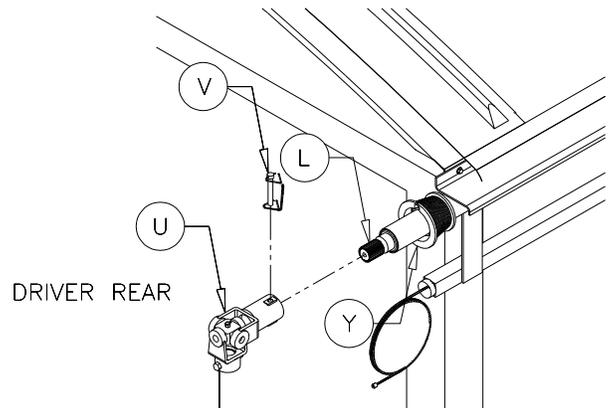


Figure 10

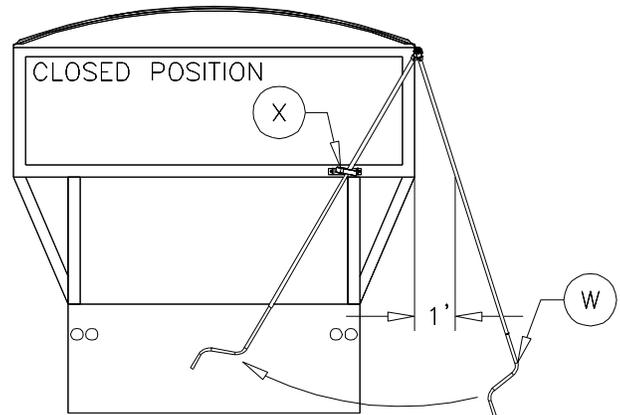
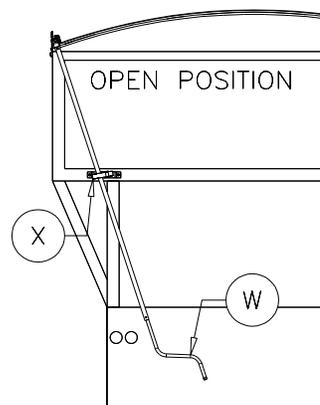


Figure 11



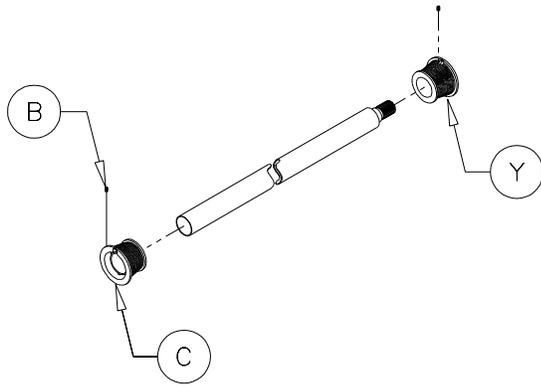


Figure 13

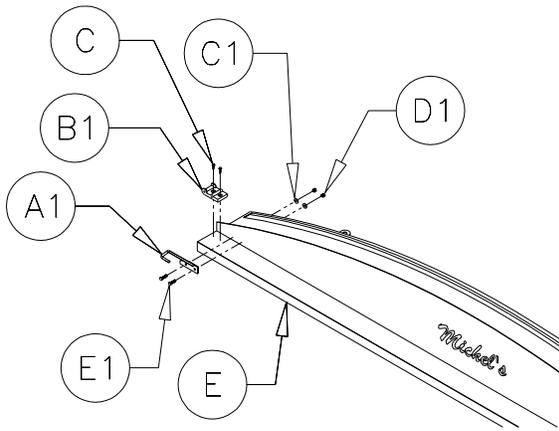


Figure 15

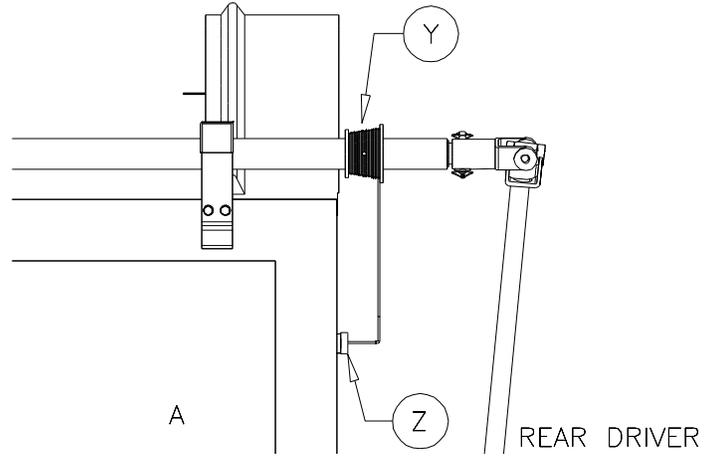


Figure 14

**Warranty** Michel's Industries Ltd. warrants their products for a period of one year from date of purchase. Any parts returned to Michel's Industries Ltd. shall be shipped prepaid, and will be returned F.O.B. St.Gregor, Saskatchewan, Canada. We will not assume responsibility for shipping, labor or travel expenses. Please Note: We reserve the right to make improvements; therefore specifications are subject to change without notice.

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