



Tarps4Trucks

a *Cosner Mfg.* company

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Lake Wales, FL 33853

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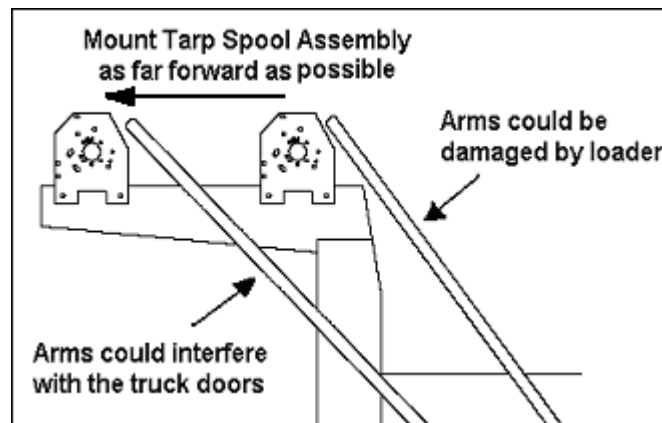
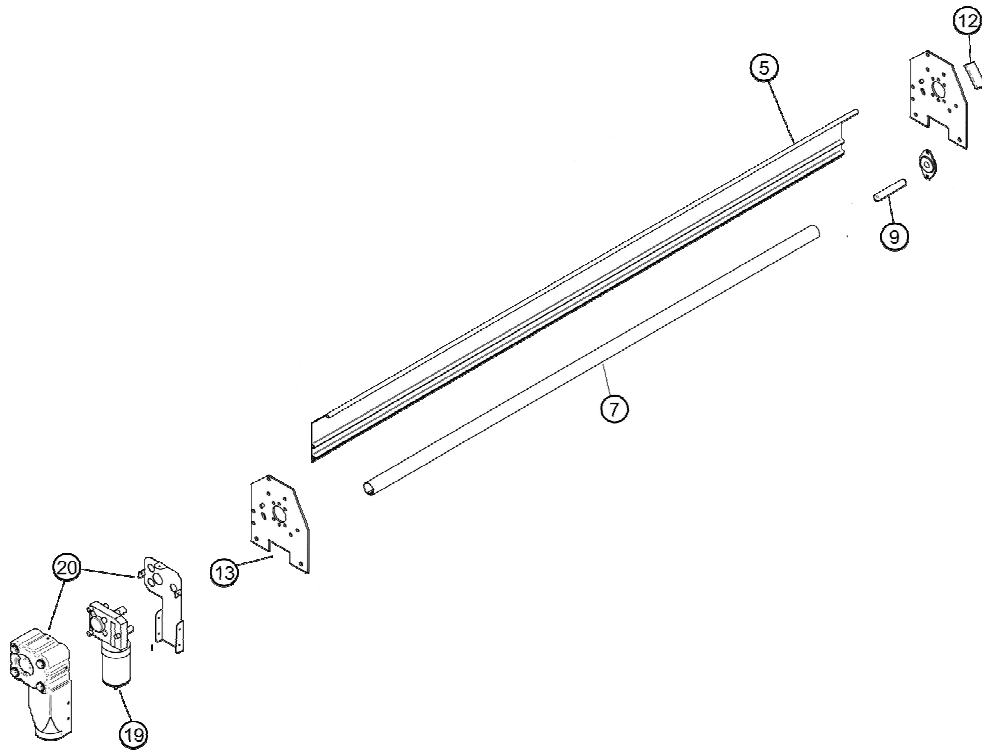
Head Assembly Included Parts:

QTY	Part Number	Description
2	P-1018A	Aluminum Bearing Plate w/rubber bumper
1	P-1111	Tarp Axle, 103"
1	P-1015	3/4" Flange Bearing
1	P-1019	3/4" Stub Shaft With Hole
1	P-M60	Standard Motor 60:1 Ratio with Chrome Cover (over 32' use 90:1 motor)
1	P-700R	Relay Switch Kit
1	P-W6-1ft	6 GA. Dual Wire, 80ft
1	P-1002	Hardware Bag
OPTIONAL		
1	P-1710	Polish Aluminum Wind Deflector 103" length

Tarp Arm Assembly Included Parts:

QTY	Part Number	Description
1	P-5020P	Underbody Spring Assembly, Passenger's Side
1	P-5020D	Underbody Spring Assembly, Driver's Side
2	P-5040	Lower One-Piece Arm Casting
2	P-4192B	Aluminum Arm with 30 degree bend (144", 168" 192", 240")
1	P-4102	Steel U-shaped Cross Tube (or 98" steel tube & 2- 90 degree corners)
2	P-4095	3" Rubber Tarp Centering Flange
1	P-4002	Hardware Bag

STEP # 1 – Installing the Head Assembly



MOUNTING THE ALUMINUM BEARING PLATES

- 1) Mount the two supplied **ALUMINUM BEARING PLATES** (#13) on the exterior, and as far forward as possible, of the dump box. (See the picture above for an explanation). Drill the two mounting holes 1-3/4" down from the top edge of the box.
- 2) Use the supplied 1/2" x 1" bolts & 1/2" nuts for attaching the **ALUMINUM BEARING PLATES** (#13). The **RUBBER BUMPERS** (#12) should face towards the rear of the truck.

MOUNTING THE MOTOR

- 1) Mount the **MOTOR** (#19) to the **ALUMINUM BEARING PLATE** on the driver's side. Be sure to sandwich the **CHROME MOTOR COVER PLATE** (#20) between the **MOTOR** (#19) and the **ALUMINUM BEARING PLATE** as shown above. Use the three supplied 5/16" x 3/4" grade 5 bolts for mounting the motor.

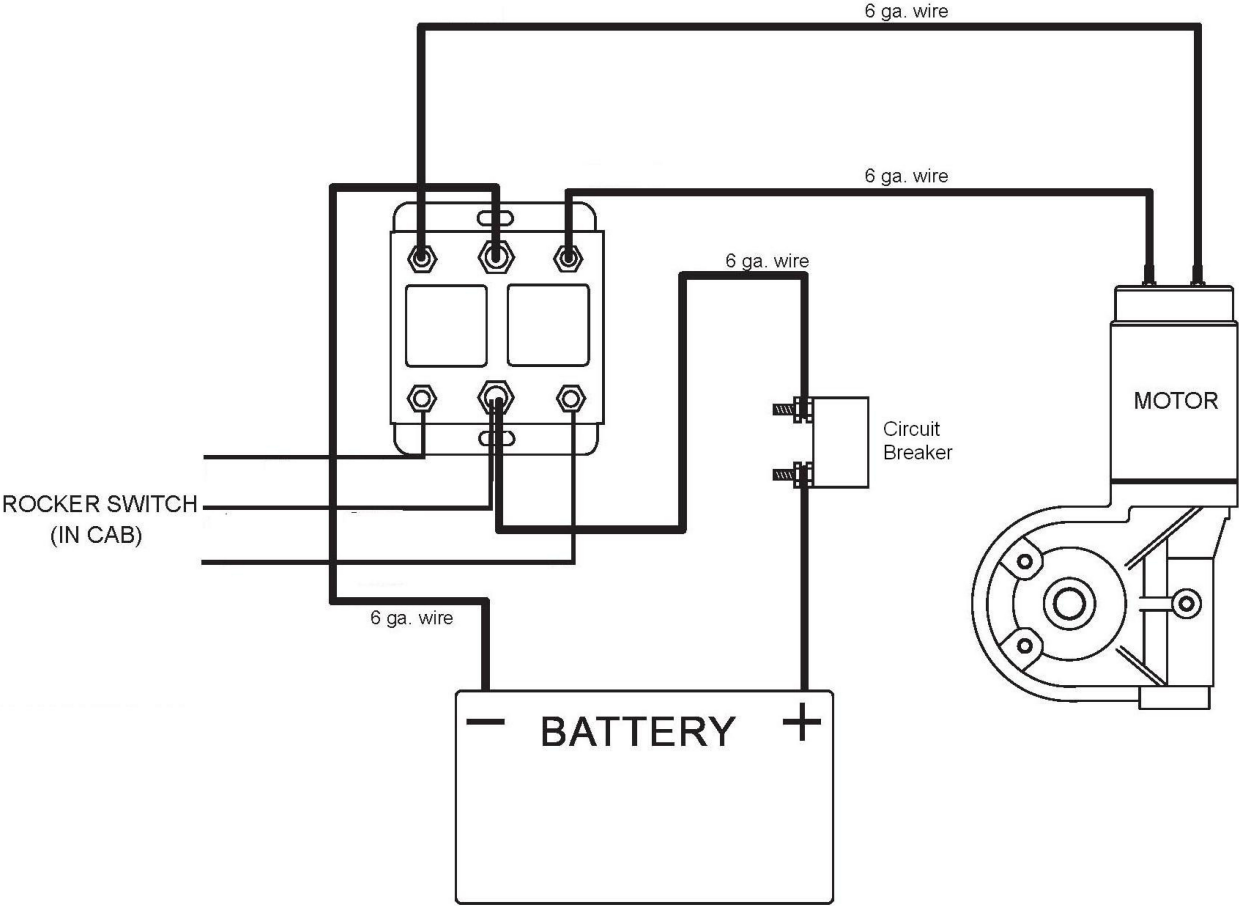
INSTALLING THE TARP AXLE

- 1) Measure the distance between the two **ALUMINUM BEARING PLATES**. Verify that the **TARP AXLE** is 2 1/2" shorter than this length. If the **TARP AXLE** is too long, cut it to the correct length then drill a 5/16" hole through the axle 1/2" from both ends.
- 2) Slide the **TARP AXLE** into the motor shaft and secure with a 5/16" x 2-1/4" bolt & 5/16" nut.
- 3) Slide the **STUB SHAFT** from the passenger's side of the vehicle in to the **FLANGE BEARING**. Secure with a 5/16" x 2-1/4" bolt & 5/16" nut. Lock Down set screw in the bearing sleeve.

INSTALLING THE WIND DEFLECTOR

- 1) Install the optional **WIND DEFLECTOR** (#5) by first verify that the length is correct to fit between the two **ALUMINUM BEARING PLATES** (#13). If the **WIND DEFLECTOR** is too long, cut it to the correct length.
- 2) Attach the **WIND** to the **TARP SPOOL MOUNTING BRACKETS** using the supplied six 5/16" x 1-1/4" self threading bolts.

STEP # 2 – Wiring the Motor and Switch



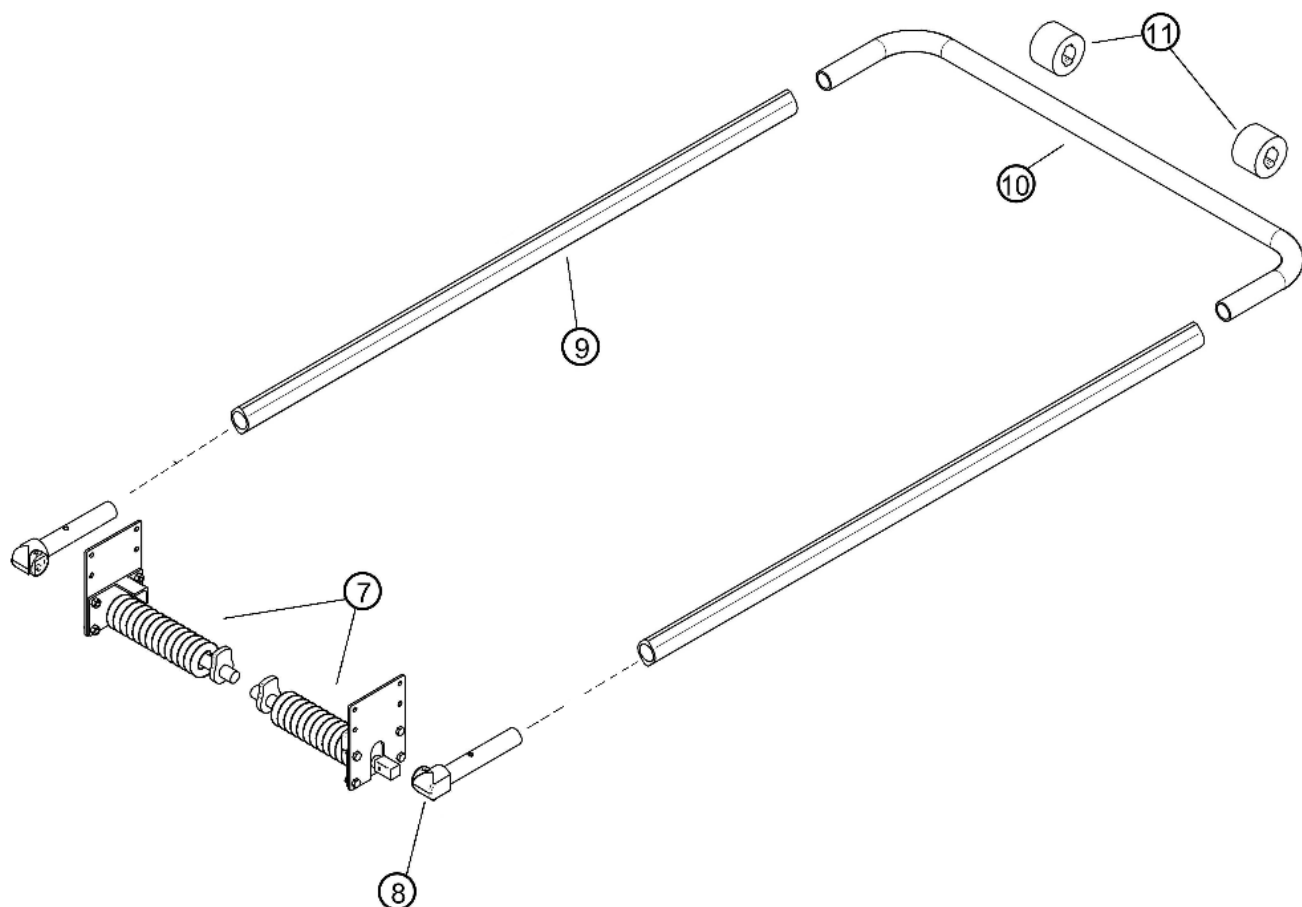
- 1) Run the **DUAL CONDUCTOR WIRE** from the **MOTOR** down the front of the dump box, along the bottom of the box, around the hinge, and along the frame rail to the **RELAY SWITCH ASSEMBLY**.

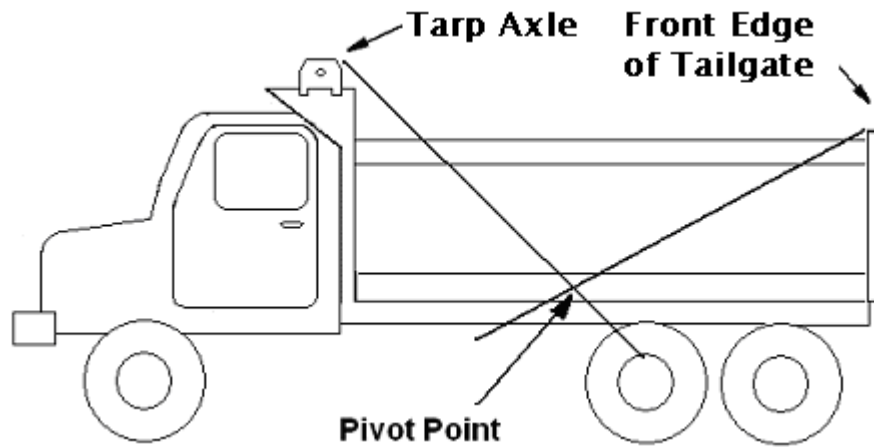
Be sure to not bind the wire around the hinge

- 2) Run another section piece of the **DUAL CONDUCTOR WIRE** from the Battery to the **RELAY SWITCH ASSEMBLY**.
- 3) Mount the supplied **SWITCH** and **BRACKET** inside the cab using the two mounting holes and the necessary screws or bolts.
- 4) Run the **18 ga / 3 conductor wire** from the switch to the **RELAY SWITCH ASSEMBLY**.
- 5) Connect the **DUAL CONDUCTOR WIRE**, and the **18 ga / 3 conductor wire** as shown above to the Motor, Switch, circuit breakers, and battery.
- 6) After connecting all wires, check to see that when the switch is turned to wind-up the tarp the **TARP AXLE** turns counter-clockwise when viewing it from the driver's side of the truck. If not, reverse the two wires on the **MOTOR**.
- 7) After testing the Electrical to make sure it is wired correctly, attach the **CHROME MOTOR COVER** (#5) to the **MOTOR COVER PLATE** (#4) using the seven supplied #10 screw and rubber grommets (#16).

STEP # 3 - Mounting the Tarp Arms

Underbody Spring Boxes





FINDING THE PIVOT POINT

This is done best using two tape measures. It is possible to use only one tape measure, but will take some additional time.

- 1) Have one person use a tape measure to measure distance from the **TARP AXLE** to an approximate **PIVOT POINT** location on the side rail.
- 2) Have a second person use another tape measure to measure the distance from the **FRONT EDGE OF THE TAILGATE** to the same approximate **PIVOT POINT**.
- 3) The actual **PIVOT POINT** is where the two tape measures cross and the measurements are equal. Mark the place where this happens.

MOUNTING THE SPRING ASSEMBLY

- 1) The **SPRING ASSEMBLY** (#7) can either be mounted under the box or bottom rail, or the front plate on the spring assembly can be removed and the **SPRING ASSEMBLY** can be mounted through the box or bottom rail. If the **SPRING ASSEMBLY** is mounted through the box or bottom rail a 1-1/8" diameter hole will need to be drilled for the shaft.
- 2) Position the **SPRING ASSEMBLY** over the mark created and mark the four mounting holes for drilling.
- 3) Mount the **SPRING ASSEMBLY** labeled with a 'D' on the driver's side of the box and mount the **SPRING ASSEMBLY** labeled with a 'P' on the passenger's side of the box.

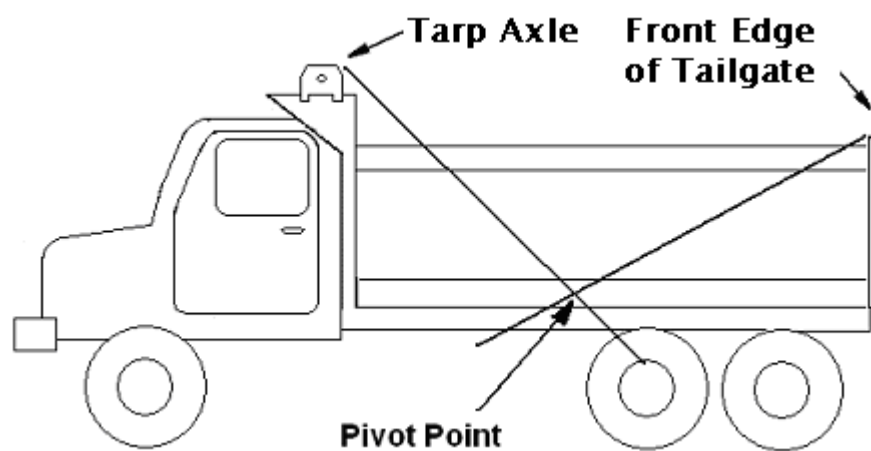
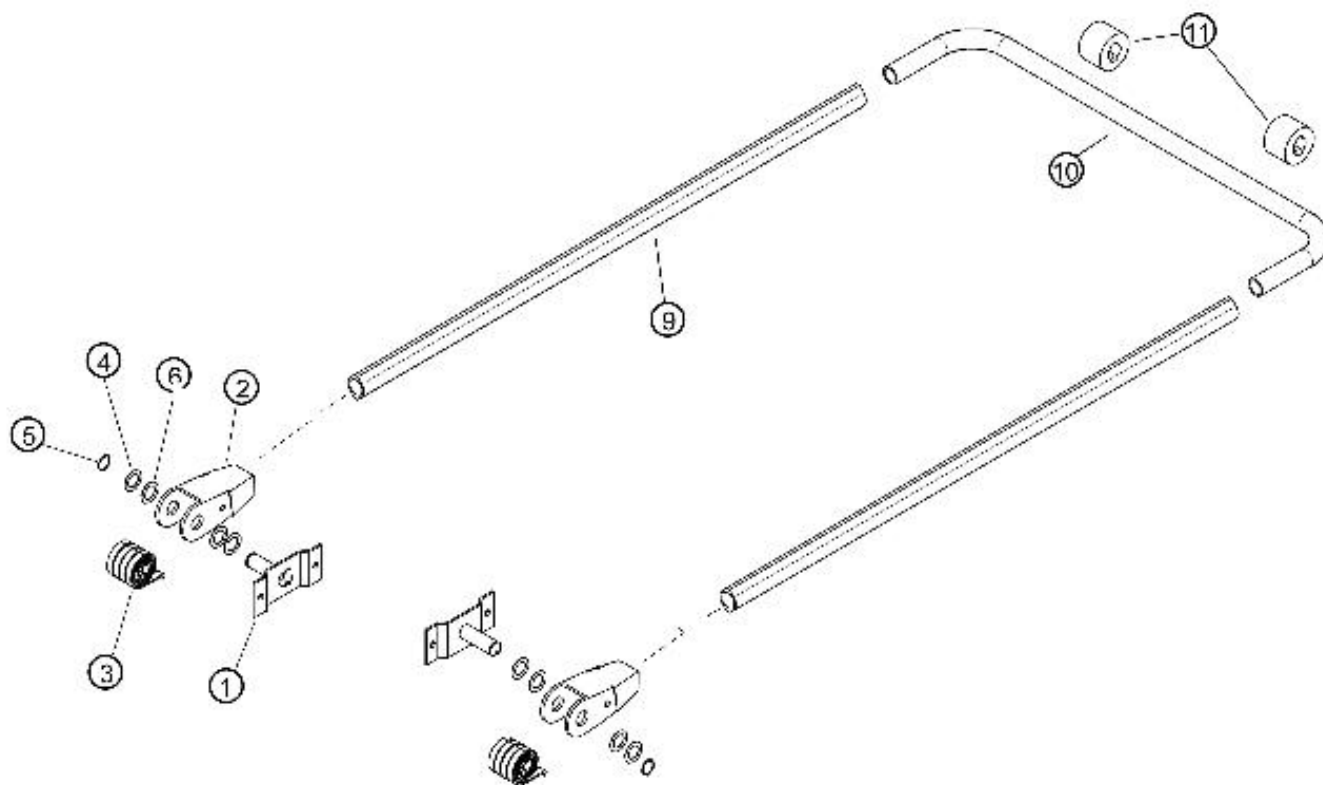
Use the supplied 3/8" x 1" bolts, washers & nuts to attach to the box.

- 4) Attach the other **SPRING ASSEMBLY** in the same location on the other side of the dump box.

ATTACHING THE LOWER ARMS

- 1) On the driver's side of the box turn the shaft on the **SPRING ASSEMBLY** by hand in the counter-clockwise direction to the point where the shaft engages with the spring.
- 2) Mount the **PIVOT CASTING** to the **SPRING ASSEMBLY** with the **PIVOT CASTING** pointing to the rear of the box. Attach the **PIVOT CASTING** using the supplied 1/4" x 2-1/2" Bolt and Nut.
- 3) With the **PIVOT CASTING** pointing to the rear of the dump box, slide the **SIDE ARM** (#9) on to the **PIVOT CASTING**.
- 4) Follow steps 1,2 & 3 above for the passenger's side of the dump box EXCEPT turn the shaft in the clockwise direction.
- 5) Slide one of the **TARP CENTERING FLANGES** (#11) on to the **CROSS TUBE** (#10).
- 6) Slide the pocket end of the TARP on to the **CROSS TUBE**.
- 7) Slide the remaining **TARP CENTERING FLANGE** on to the **CROSS TUBE**.
- 8) Slide the **CROSS TUBE** (#10) into the **SIDE ARM** mounted on the truck and lie the **CROSS TUBE** on the ground behind the truck. Compare the distance from the Pivot to the Cross tube to the distance measured above from the pivot to the Tarp Axle or Tailgate. If the **SIDE ARMS** are too long, remove the **SIDE ARMS** and cut to the necessary length.
- 9) After the **SIDE ARMS** are verified to be the correct length lift **CROSS TUBE** to rest on the rear tailgate and side the ends of the **CROSS TUBE** into the **SIDE ARMS** and bolt the **SIDE ARMS** to the **PIVOT CASTINGS** and **CROSS TUBE** using the supplied hardware.

External Side Mount



FINDING THE PIVOT POINT

This is done best using two tape measures. It is possible to use only one tape measure, but will take some additional time.

- 1) Have one person use a tape measure to measure distance from the **TARP AXLE** to an approximate **PIVOT POINT** location on the side rail.
- 2) Have a second person use another tape measure to measure the distance from the **FRONT EDGE OF THE TAILGATE** to the same approximate **PIVOT POINT**.
- 3) The actual **PIVOT POINT** is where the two tape measures cross and the measurements are equal. Mark the place where this happens.

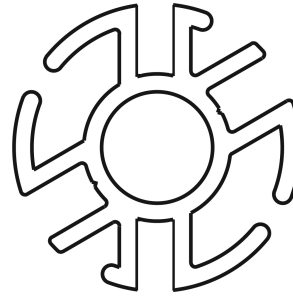
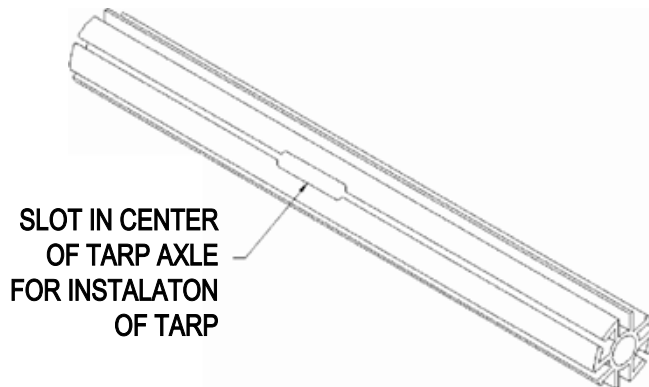
MOUNTING THE PIVOT PIN

- 1) Hold the **PIVOT PIN** (#1) centered over the mark created and mark the two mounting holes for drilling.
- 2) Mount the **PIVOT PIN** (#1) with the groove facing down and use the supplied with a 5/8" x 1-1/2" bolt (#10), washer (#11) & nut (#10) to attach to the truck.
- 3) Attach the other **PIVOT PIN** (#1) in the same location on the other side of the dump box.

ATTACHING THE LOWER ARMS

- 1) With the **PIVOT CASTING** pointing to the rear of the dump box, slide the **SIDE ARM** on to the **PIVOT CASTING**.
- 2) Slide one of the **TARP CENTERING FLANGES** (#11) on to the **CROSS TUBE** (#10).
- 3) Slide the pocket end of the TARP on to the **CROSS TUBE**.
- 4) Slide the remaining **TARP CENTERING FLANGE** on to the **CROSS TUBE**.
- 5) Slide the **CROSS TUBE** (#10) into the **SIDE ARM** mounted on the truck and lie the **CROSS TUBE** on the ground behind the truck. Compare the distance from the Pivot to the Cross tube to the distance measured above from the pivot to the Tarp Axle or Tailgate. If the **SIDE ARMS** are too long, remove the **SIDE ARMS** and cut to the necessary length.
- 6) After the **SIDE ARMS** are verified to be the correct length lift **CROSS TUBE** to rest on the rear tailgate and side the ends of the **CROSS TUBE** into the **SIDE ARMS** and bolt the **SIDE ARMS** to the **PIVOT CASTINGS** and **CROSS TUBE** using the supplied hardware.

STEP # 4 – Attaching the Tarp



End view of roller bar

Bring the free end of the TARP to the front of the truck and attach the Tarp to the **TARP AXLE**:

- 1) Sliding the spline into the slot in center of tarp axle as shown above.

STEP # 5 – Final Steps

Operate the tarping system and adjust the position of the **TARP CENTERING FLANGES** on the **CROSS TUBE** so that the **CROSS TUBE** does not rest on the top edge of the box. Also, make sure the **TARP CENTERING FLANGES** hit the rubber bumpers on the spool.