



Robustness

Lightweight

Reliability

Quality

Long lasting

Performance



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USER GUIDE

DISCLAIMER

This manual is intended to be used as a guide for dump body installation from Lanau Industries inc. All illustrations and photos should be used as references for dump body installation.

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Cylinder base

Step 1.

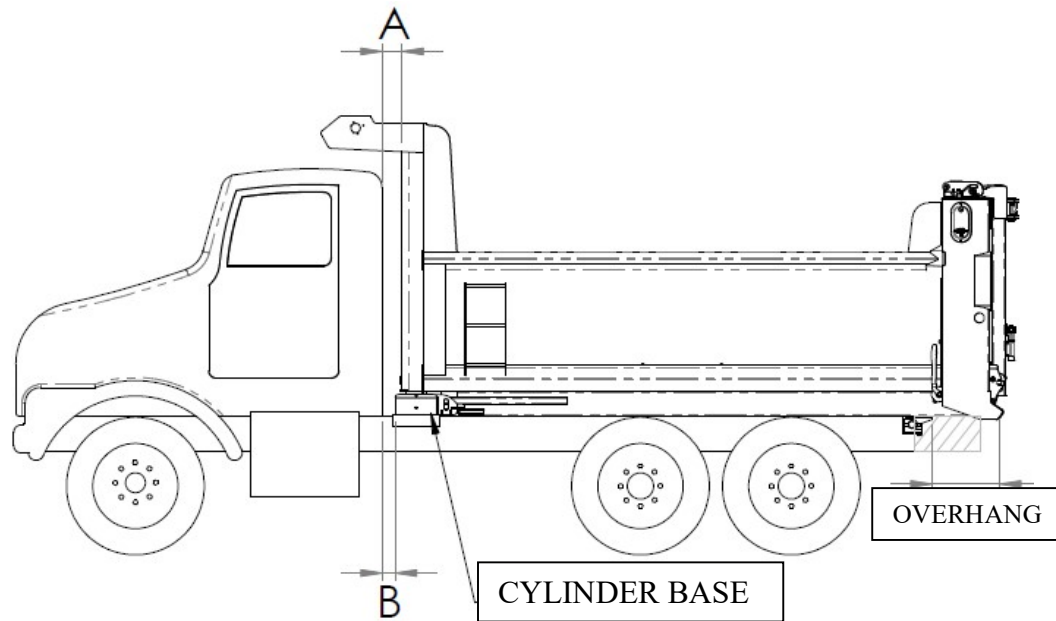


Fig. 1 – Cylinder base location

Table - Determine the distance (B) between the base and the cab

		DISTANCE (A)			
		3"	4"	5"	6"
CYLINDER BASE	24 tons	2 3/8"	3 3/8"	4 3/8"	5 3/8"
	35 tons	2"	3"	4"	5"
	45 tons	-	1 7/8"	2 7/8"	3 7/8"
	50 tons	-	1 1/2"	2 1/2"	3 1/2"

First, you have to determine the required distance (A) between the dump body and the cab. We suggest a 4 inches distance. However this measurement may vary because of exhaust, pipes, valves etc. See fig. 1.

To determine the installing distance (B) between the cylinder base and the cab, refer to the tonnage in the chart below.

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Cylinder base

STEP 2.

Install the base cylinder angles on the truck frame. Note that the base should be 1 inch from the front border of the angle. See fig. 2.

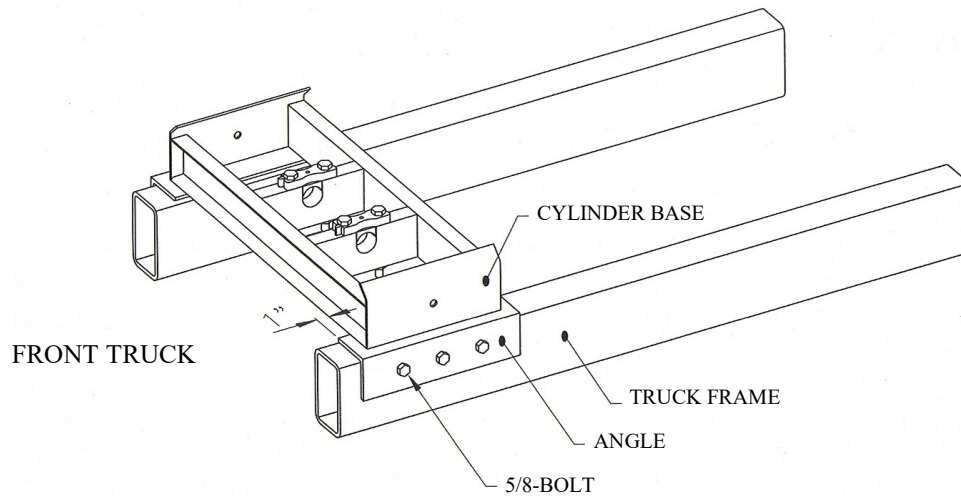


Fig. 2 – Angles location

STEP 3.

Bolt the angles on the frame with a minimum of three 5/8 bolts. Using holes already in the frame if not make some.

STEP 4.

Put the cylinder base on the angles and align the center of measure (C) in the center of the frame. Make sure that the base is making a right angle with the frame. Weld the base with the angles. See fig. 3.

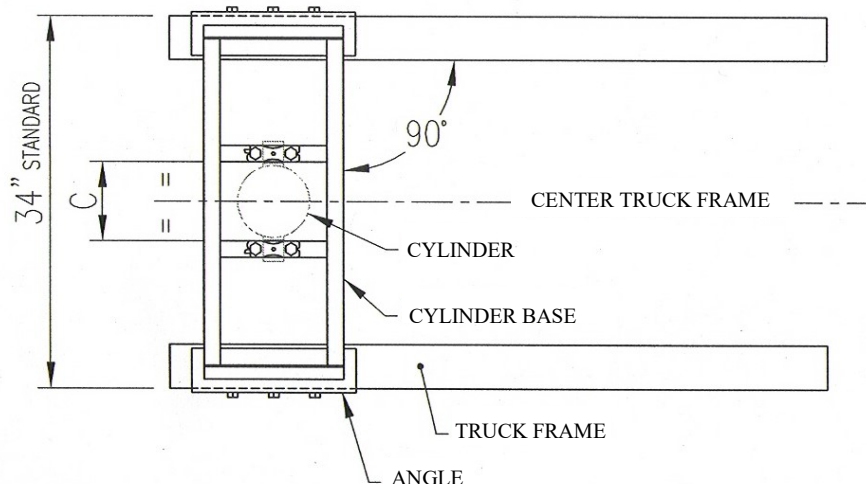


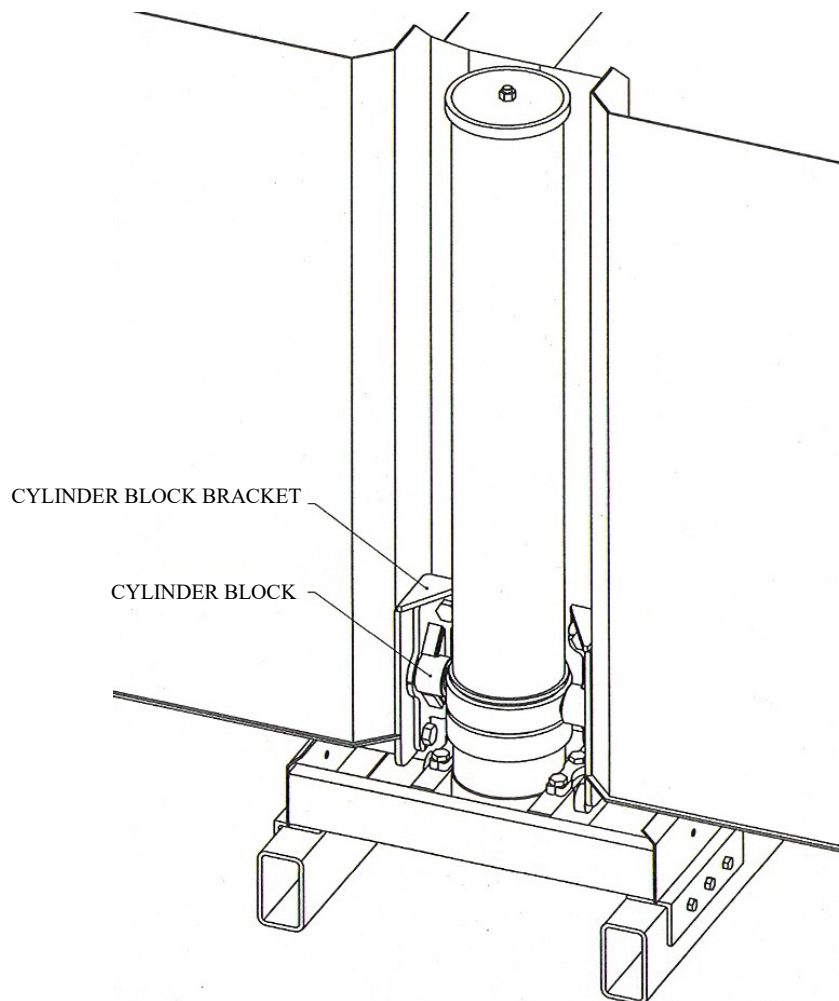
Fig. 3 – Cylinder base location

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Hydraulic cylinder

Install the cylinder on the base in a way that the hydraulic exit will be on the driver side. In very rare occasion the exit may be on the passenger side. If you have interference use a hydraulic swivel. Bolt on the cylinder to the base.

Insert the cylinder blocks to the cylinder put them on the support welded at the front of the dump body and bolt them. See fig. 4.



Hinge

STEP 1. Location

The location of your hinges depends on your needs. Usually, the swivel center is straight with the rear end tire permitting to install a hook giving the necessary space and overhang for the paving. See fig. 5. Be sure to leave enough overhang so that you do not cut the long member reinforcement.

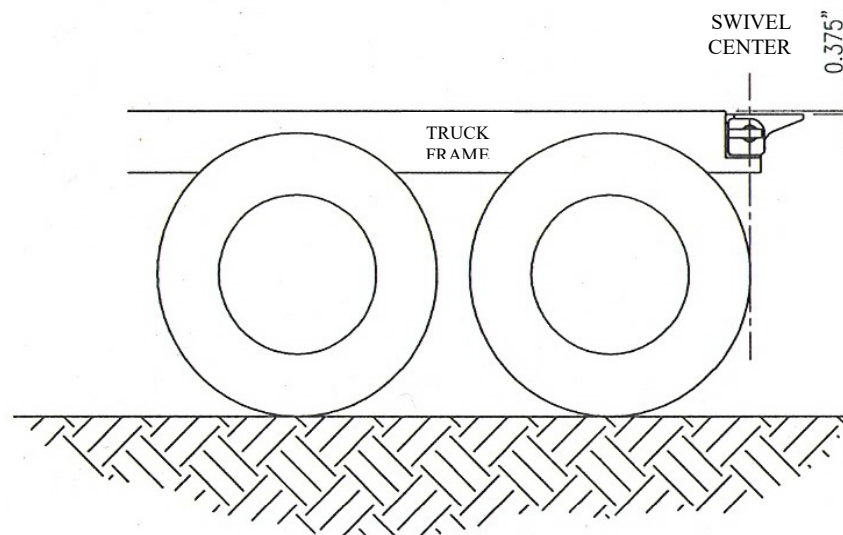


Figure 5-Hinge location

STEP 2. Dump Body length (optional)

Use a square and trace a vertical median line starting in the center of the cylinder blocks in front of the dump body (A). This median line will align directly with the greasing device of the base cylinder when the dump body is installed on the frame.

Measure from this median line to the back of the dump body and move this measure to the frame starting at the greasing device of the cylinder base toward the rear end of the truck. This will indicate where the back of the dump body will be on the truck. See fig. 6 & 7.

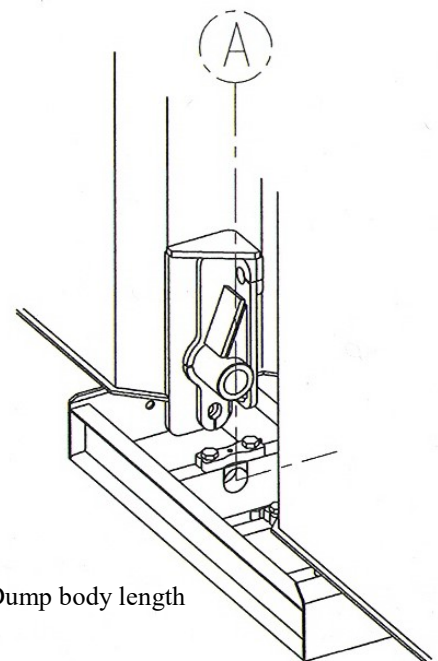


Figure 6 – Dump body length

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Hinge

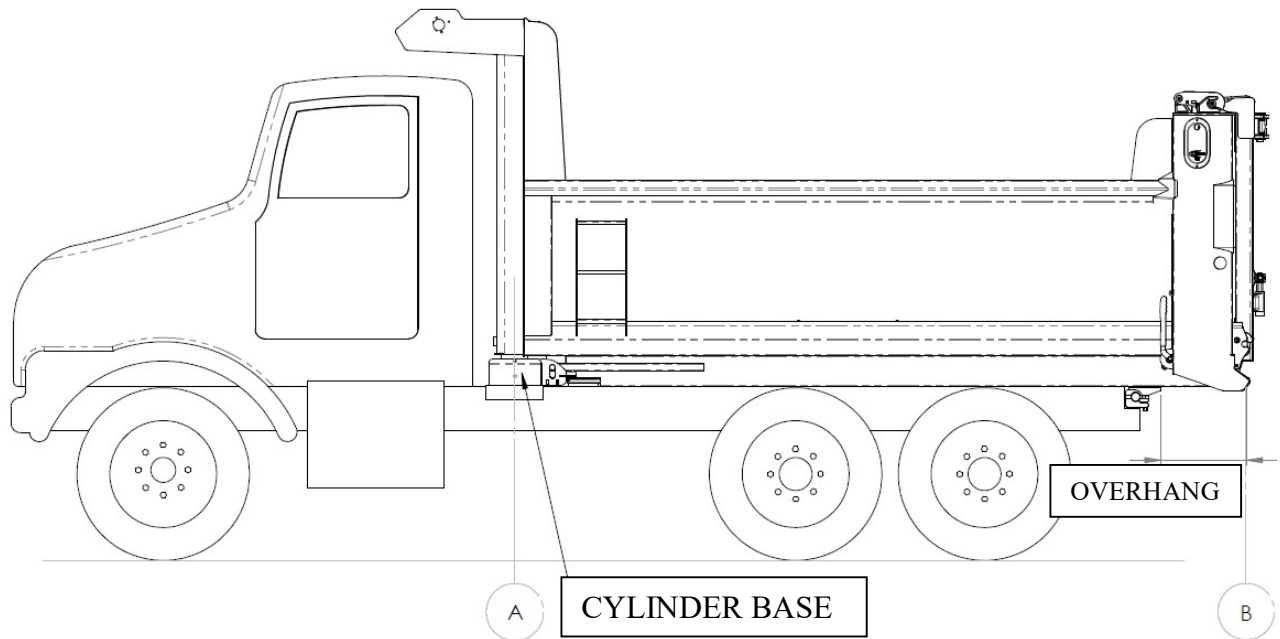


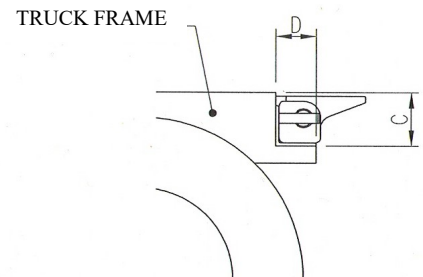
Figure 7 – Dump body length

STEP 3. Cut dimension

Note, there should be a space of 3/8 inch from above the hinge to the top of the frame to be able to install a wear plate. See fig. 5.

From the chart below, determine the necessary cut dimension with the used hinge tonnage and mark on the frame. See fig. 8.

		MEASURE	
		(C)	(D)
HINGE	24 tons	5 3/8"	4"
	35-45 tons	5 3/8"	4"
	50 tons	6 3/8"	5"





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Hinge

STEP 4. *Frame cut*

Cutting the frame, make sure that the cut of the measure (C) be parallel with the top of the frame. Clean the cut and weld the hinges in place, make sure that the swivels are welded at the right place.

If you have an interference with the frame reinforcement, the hinges might slightly be moved either frontward or backward if needed. This disposition is acceptable but left to your discretion.

Verify that the dump body underneath does not interfere with the tires, it is less possible with long member of 10 inches in height.

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Long member reinforcement

STEP 1.

We recommend that you locate the long member reinforcement before you install the dump body on the truck permitting a better work space.

Measure the distance (A) starting at the back of the cylinder base until the cut made on the frame for the hinges. See fig. 9.

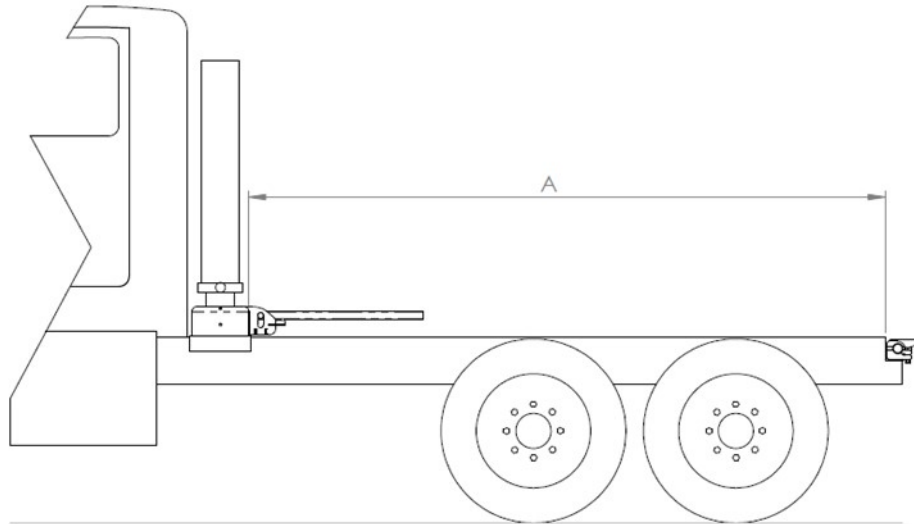


Figure 9 – Frame measure

STEP 2.

Determine the value (B) considering the tonnage of the cylinder used. See chart below:

		(B)
CYLINDER	24T	11 3/4"
	35T	12 1/8"
	45T	13 1/4"
	50T	13 5/8"

Long member reinforcement

STEP 3.

Determine the measure (C) being the distance between the front of the dump body and the beginning of the long member reinforcement using the following formula: $C = A + B$

See fig. 10.

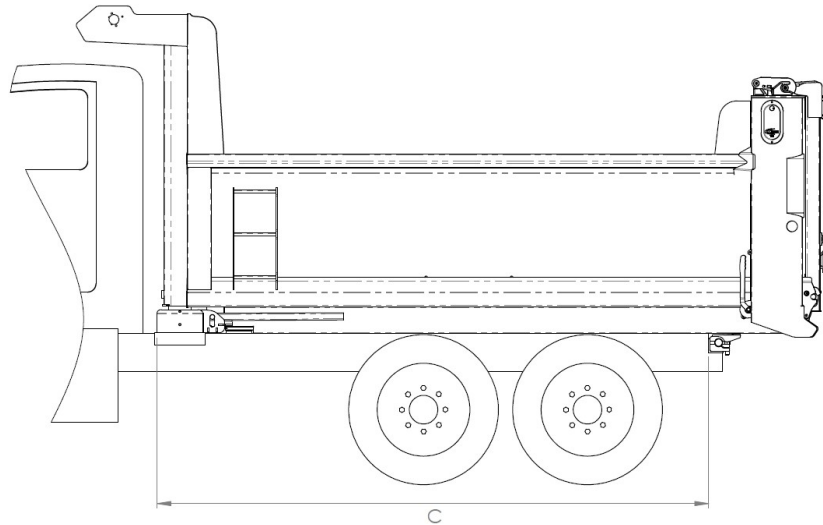


Figure 10 – Long member reinforcement location

STEP 4.

Locate the reinforcement to point (C) then weld the reinforcement on the long member as per fig. 11. **Never** weld the front part of reinforcement because it will weaken and it might break. The reinforcement should never be cut.

Now, weld all around the hinge upper pivot to the reinforcement. See figure 11a.

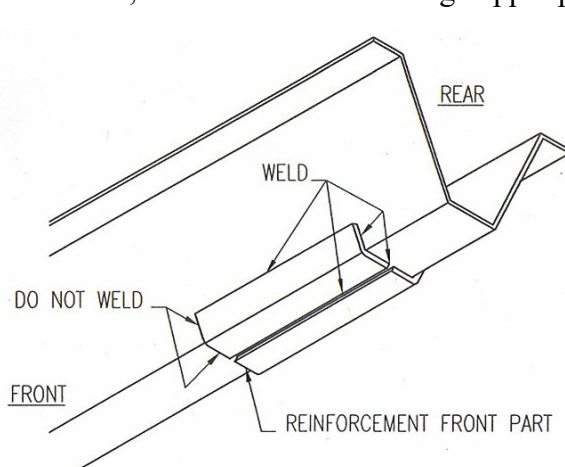


Figure 11 – Reinforcement welded

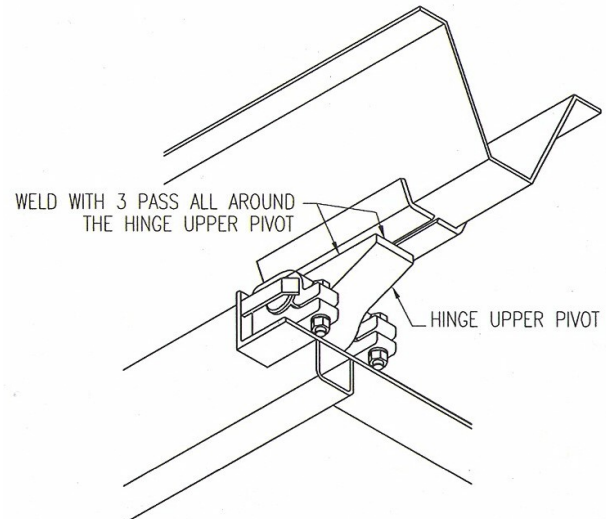


Figure 11a – Hinge upper pivot welded

Oil tank

STEP 1.

The oil tank location is up to the installer. Though it is better to put it on the driver side close to the fuel tank. Use holes already in the frame if possible. If not, make 2 holes with the upper ones from the oil tank and bolt temporarily. See fig. 12.

STEP 2.

Once bolted make sure the oil tank is level and make the other 2 holes and bolt them. See fig. 12.

STEP 3.

Now, join the oil tank with a sealer tape like Teflon, except the adaptor connecting to the cylinder.

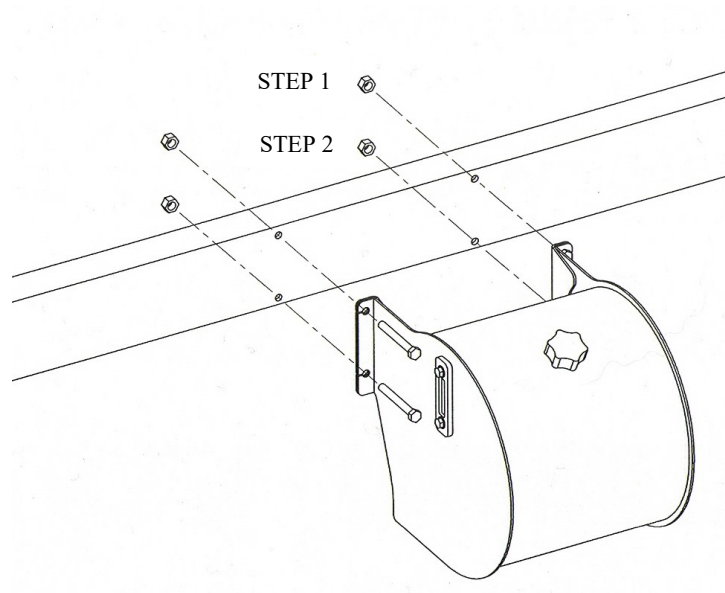


Figure 12 – Oil tank installation

Electric tarp system

Step A

Installing the bracket

Refer to fig. 13.

STEP 1. Establishing point

This shows the place where your tarp will be closing at the back of your dump body. In general, it is situated approximately in the middle of the tailgate slanted mobile hinge.

STEP 2. Establishing point

This shows the place where you would like your tarp to open at the front of the dump body, close to the cab shield.

STEP 3. Establishing point

Divide the length of the dump body in 2.

Example: $15' = 180''$ $C = 180'' \div 2$ $C = 90''$

STEP 4. Establishing point

Starting at point A, measure the distance C toward the center of the dump body right up to underneath the flooring.

STEP 5. Establishing point

Starting at point B, measure the distance C toward the center of the dump body right up to underneath the flooring.

STEP 6. Establishing the middle

Measure the distance G between points D & E found in step 4 & 5, then establish the middle.

STEP 7.

Weld the bracket so that the pivot arm is placed at F of step 6. This support must be installed parallel to the side of the bucket. See Figure 14.

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Electric tarp system

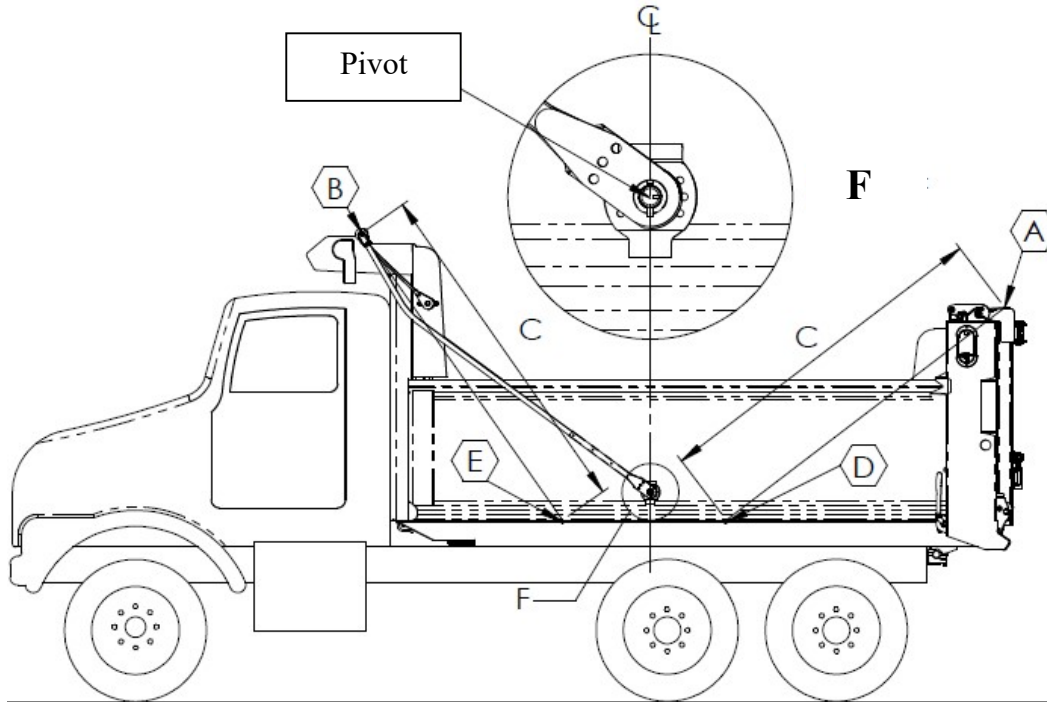
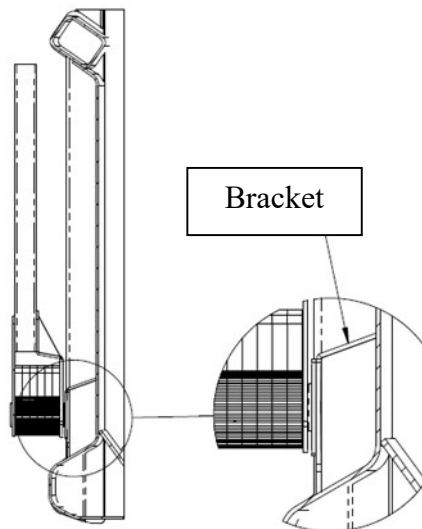


Figure13– step 1 to 6





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Figure 14 – step 7

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Electric tarp system

Step B 1: Adjust springs tension

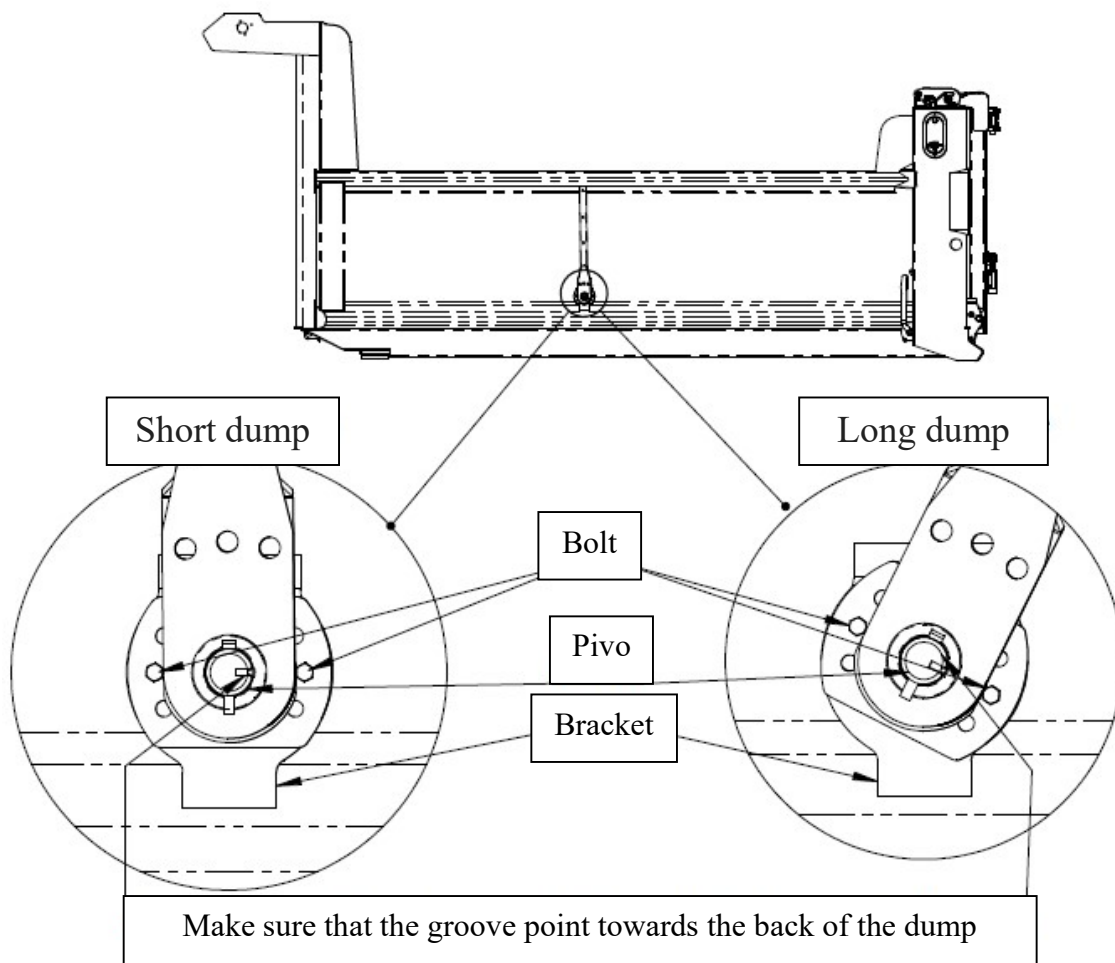


Figure 15- B.1

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Electric tarp system

Step B 2:

Insert the tarp pole

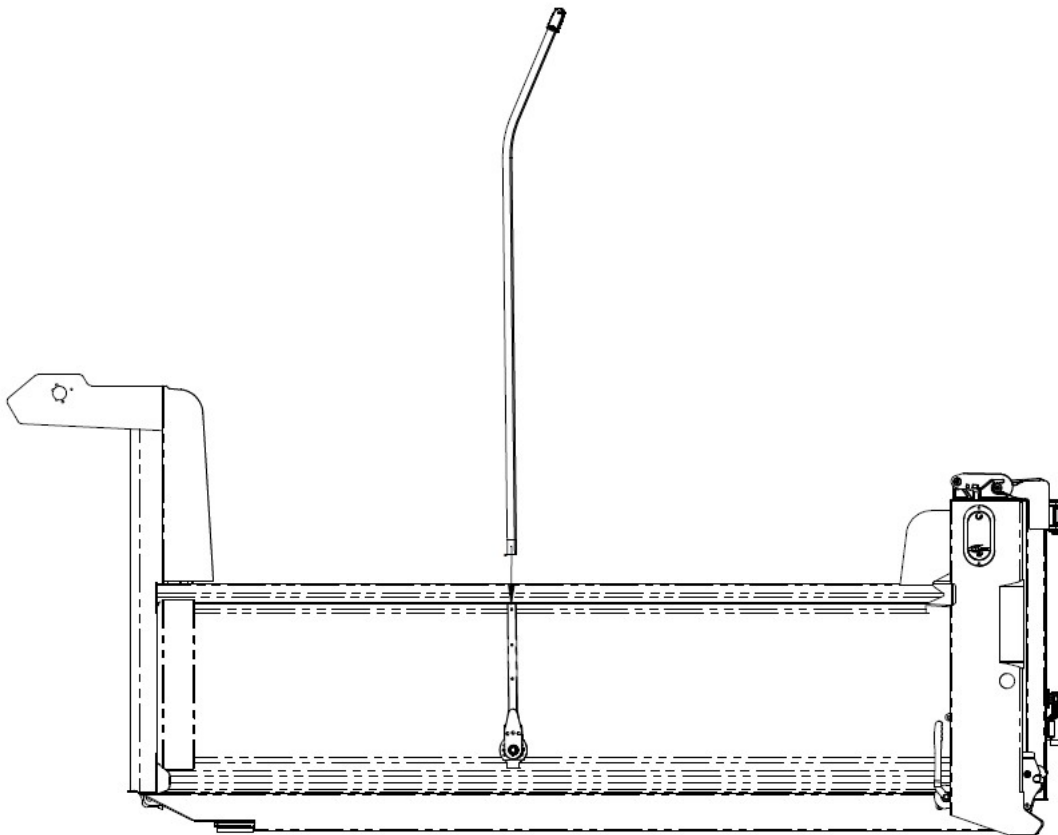


Figure 16- B.2

Electric tarp system

Step B 3: Adjust springs tension.

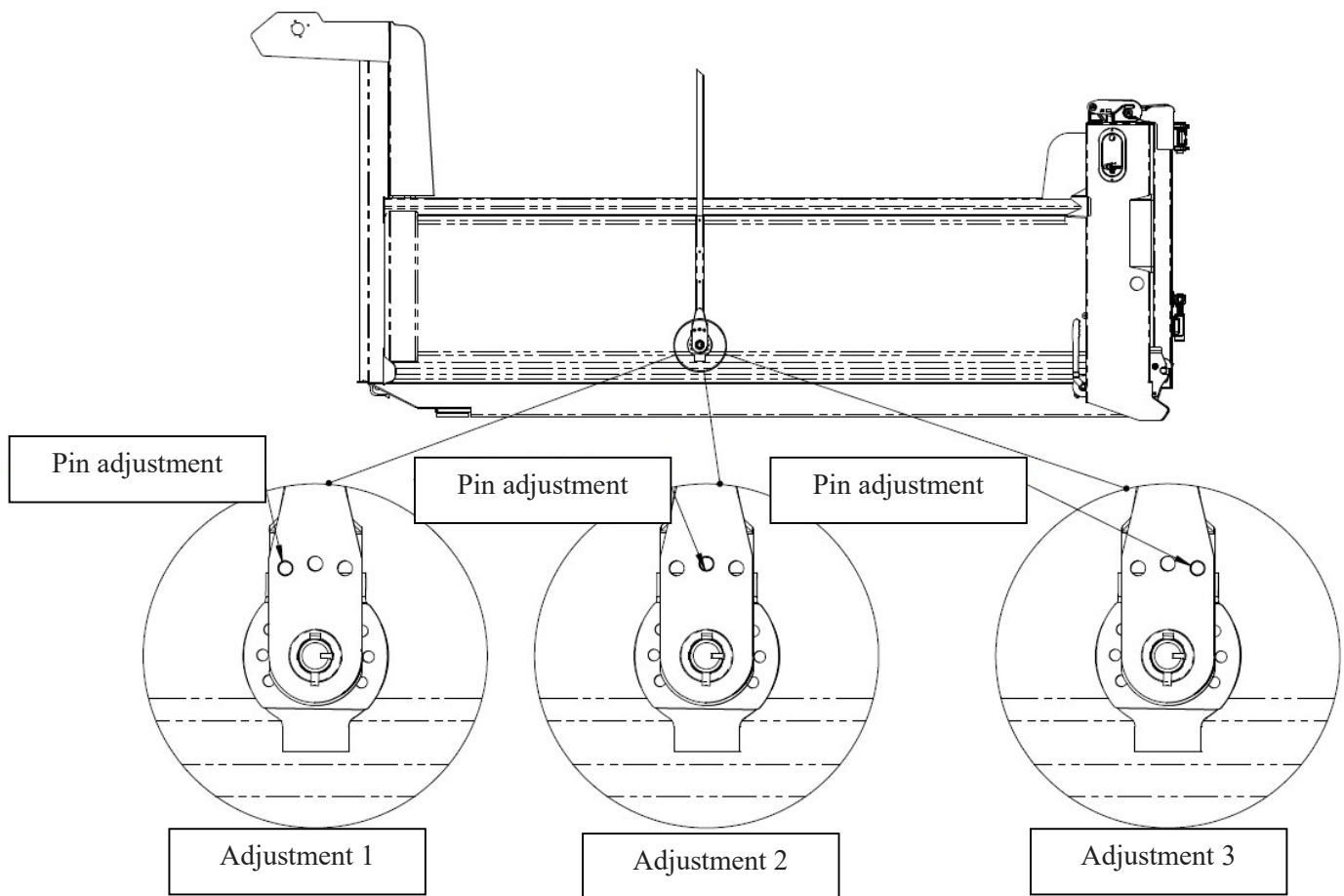


Figure 17 – B.3

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Tarp tensioner

- 1:** Place the tarp tensioner for it come after the tarp pole.

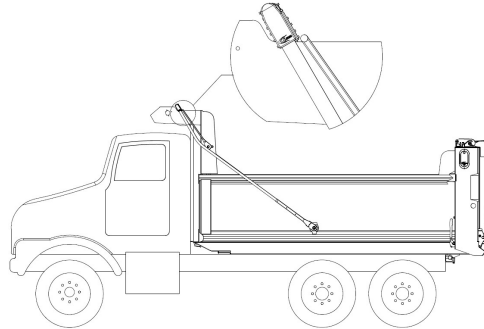


Figure 18

- 2:** Drill tow 3/8 to screw the tarp tensioner at the step 1 place.

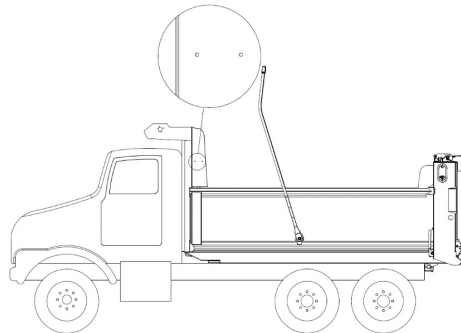


Figure 19

- 3:** Screw the tarp pole with 3/8 screw and pass the tarp in the tarp tensioner like the figure 20.

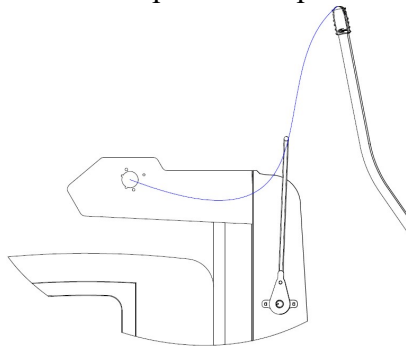


Figure 20

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Air tarp system

Step A Shaft installation.

A.1: install two shaft (11-14-0040-12-NEW) through the first long member sill. Before going through the second long member sill insert the cylinder pivot (11-14-0042-1). After, Travers the second.

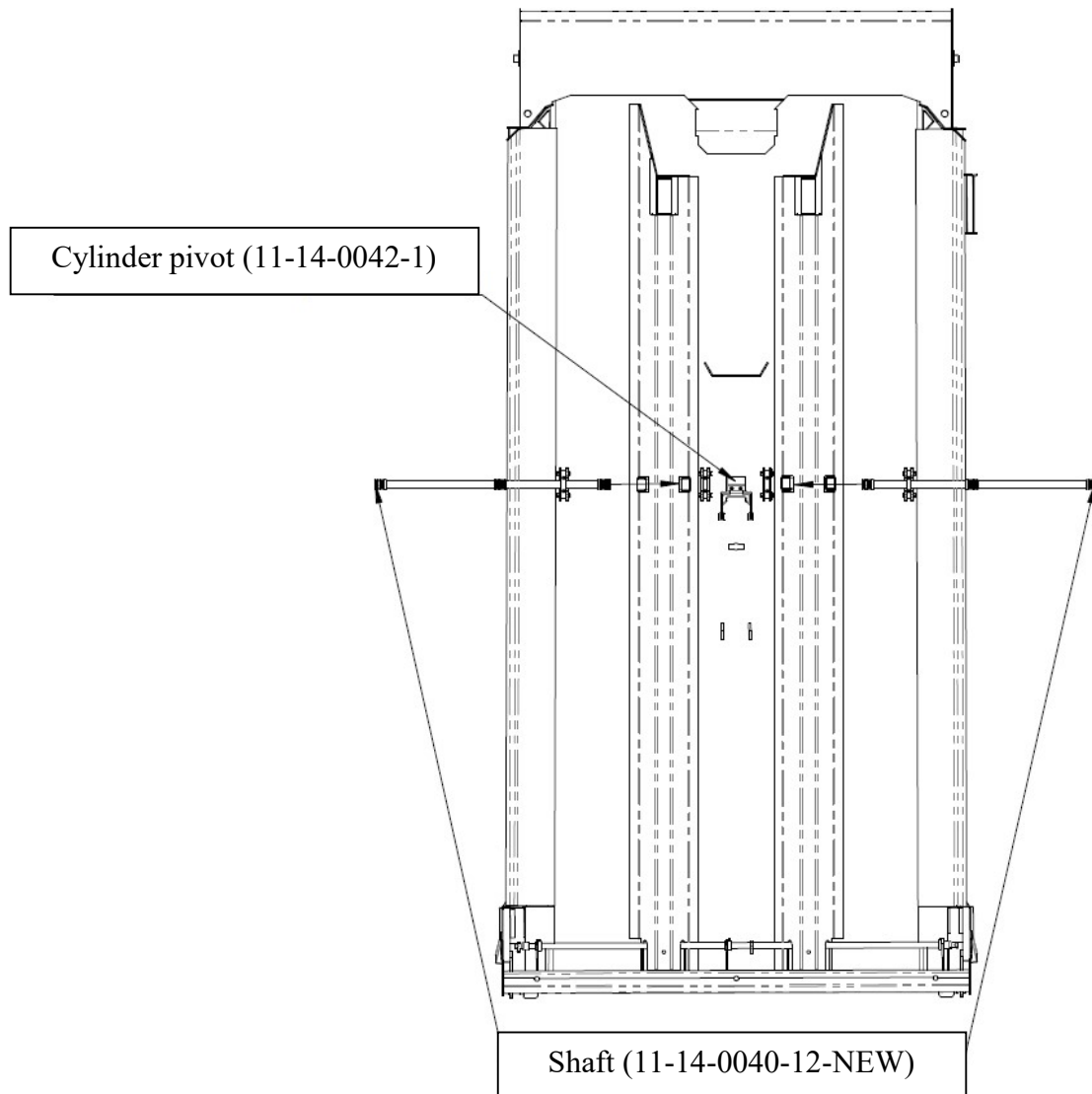


Figure 21 – A.1

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Air tarp system

A.2: Install four Teflon brackets (11-14-0040-13) make sure that the shaft are parallel with the dump body floor. The adjustments are provided for this purpose in the steel support already welded in the dump body

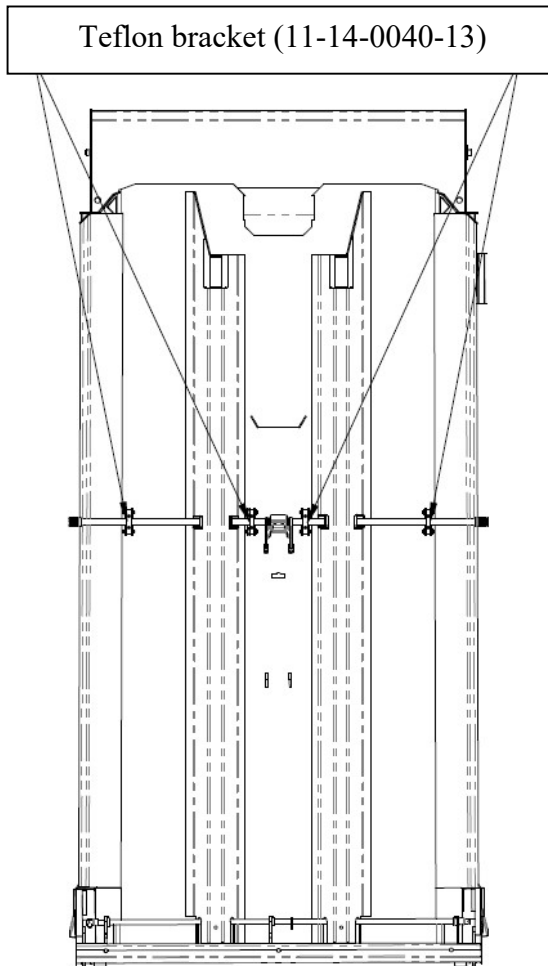


Figure 22 – A.2

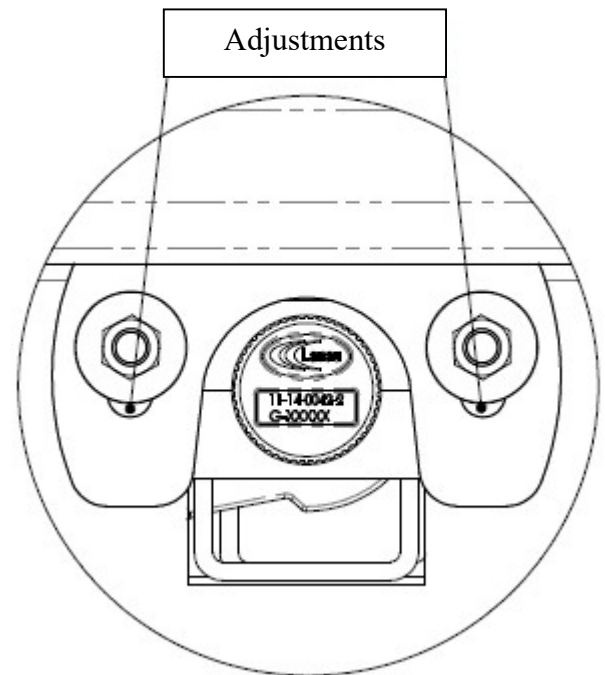


Figure 23 – A.3

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Air tarp system

A.3: Inset two tarp arms brackets (11-14-0042-3) in the arms extremities (11-14-0040-12NEW). With these 2 parts you can determine the length of the tarp arms you will need (11-09-0019).

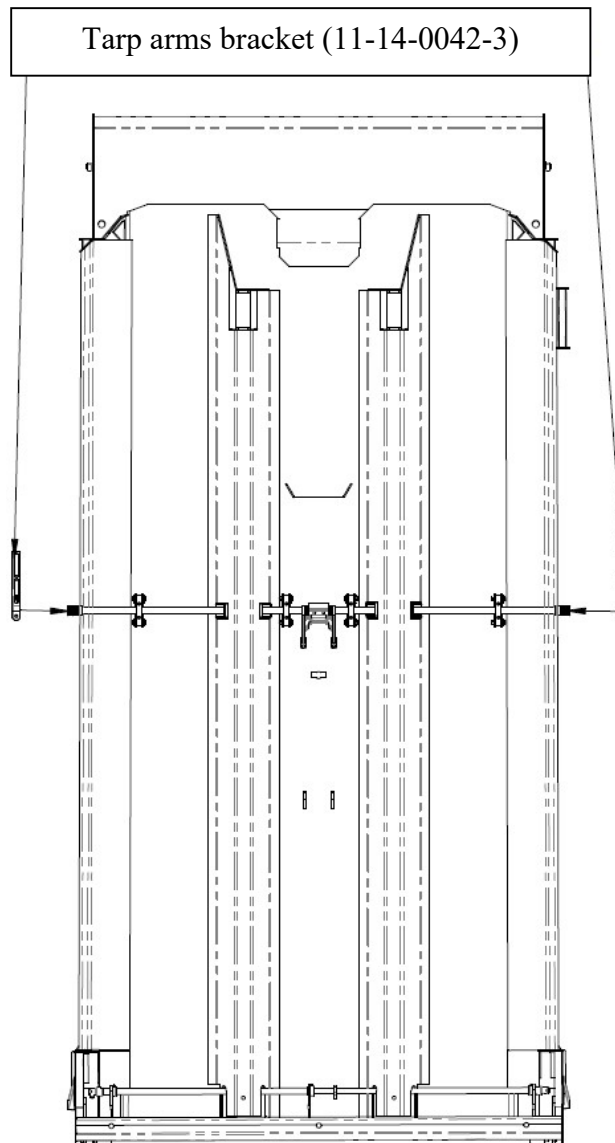


Figure 24 – A.4



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Air tarp system

A.4: Simulate the arms movement visualize the arms moving. After you have determined the arms tarp length (11-09-0019) cut at the determine length, drill slot towards the slots in the arms tarp support (11-14-0042-3). Bolt the arms tarp support in the arms tarp.

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Air tarp system

Step B:

Installation of the tarp on the pole.

B.1: install first pole link (11-14-0081) and install the pole (11-14-0041-23). You may have to cut the pole at another length, install the tarp and finish with the second pole link (11-14-0081).

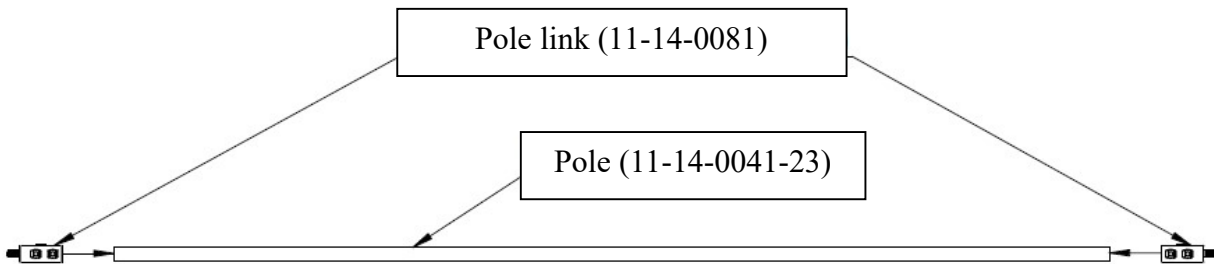


Figure 25 – B.1

B.2: install 1 tarp pole link (11-14-0080) on the pole link (11-14-0081).

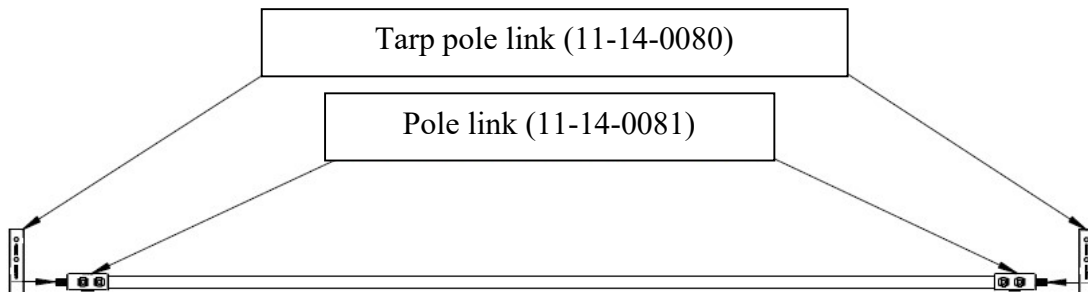


Figure 26 – B.2

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Air tarp system

B.3: Install the B.2 mounting on the tarp arms.

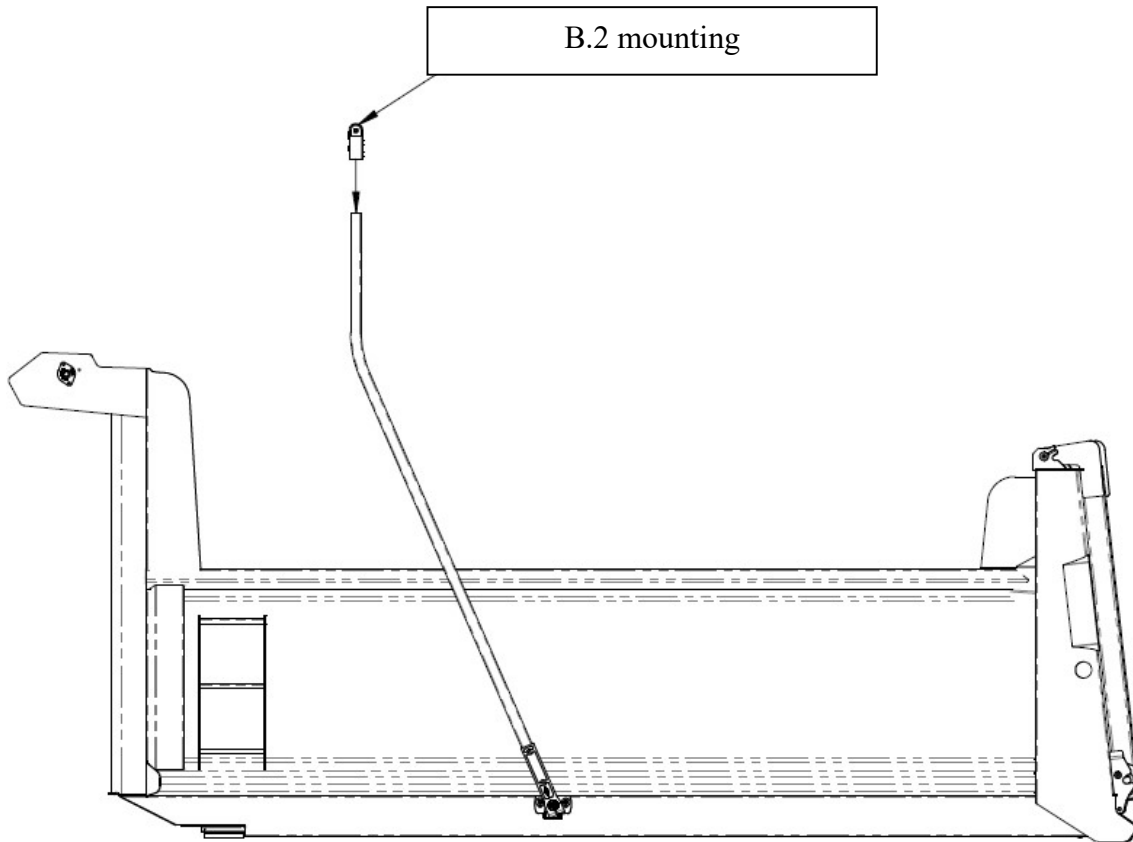


Figure 27 – B.3

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Air tarp system

Step C:

Air cylinders (15-03-0033) installation.

Notice: (Two flow-controls are furnished for adjusting cylinder speed. This flow-control need adjustment.)

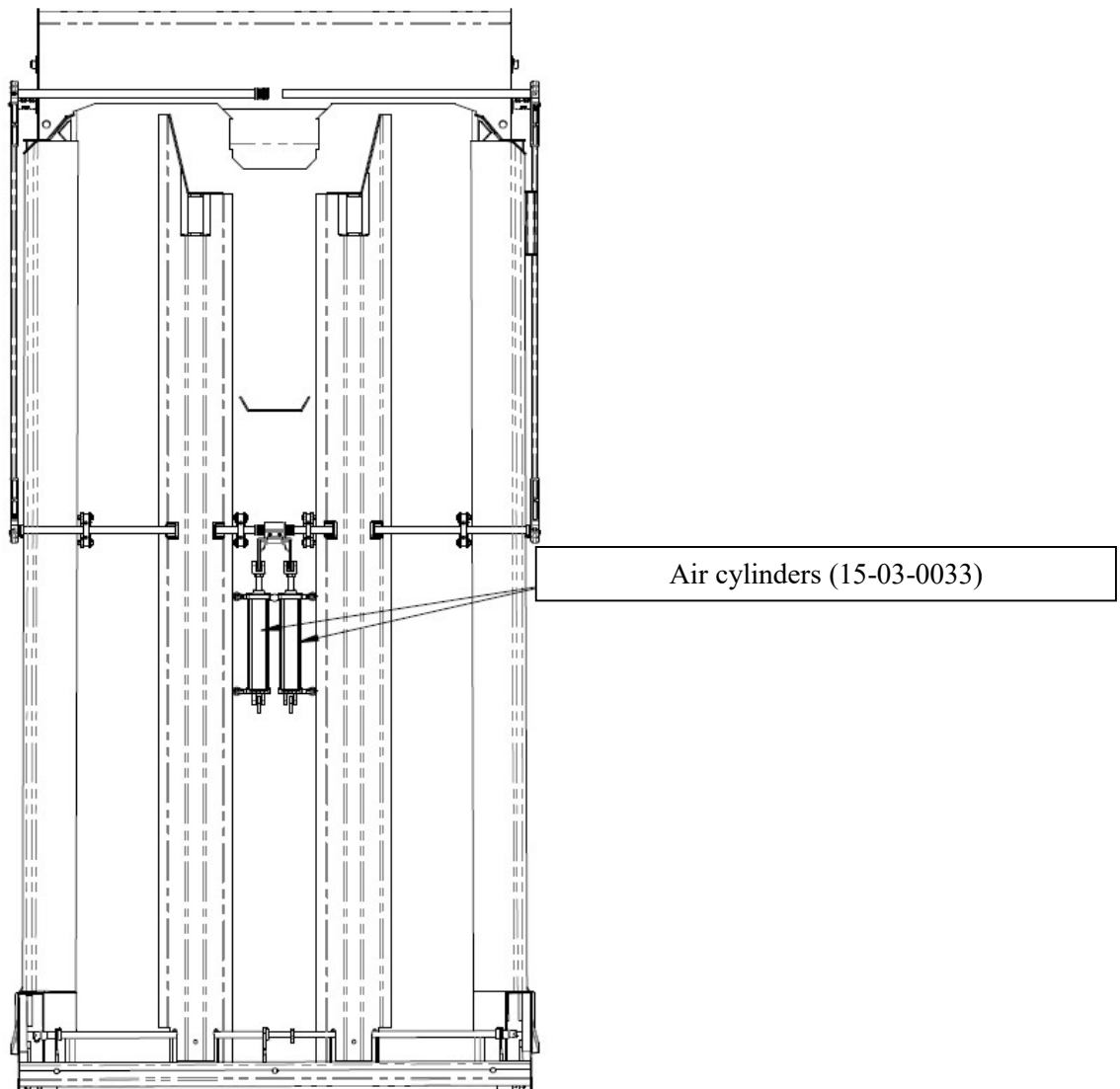


Figure 28 – C

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Air tarp system

Step D: Installing the roll and tarp

D.1: Install two roller brackets (11-14-0040) on the external cab shield side (drill slots are made for it).

*Important: Loosen set screws on the roller. After, you can centre the roller on the cab shield. Don't forget to tighten the set screws.

Notice: For more or less tension, we recommend that you count roller rotations for evaluate tension.

More tension = more rotations
Less tension = less rotations

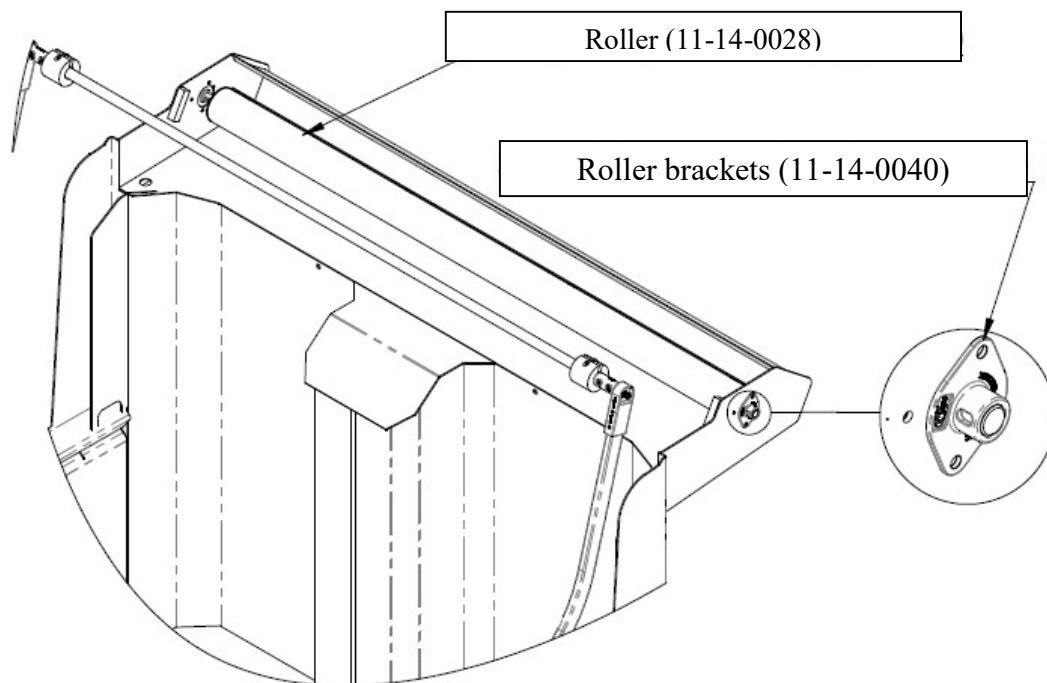


Figure 29 – D.1

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Air tarp system

D.2: Install tarp on the roller (11-14-0028) with stainless tie-rop.

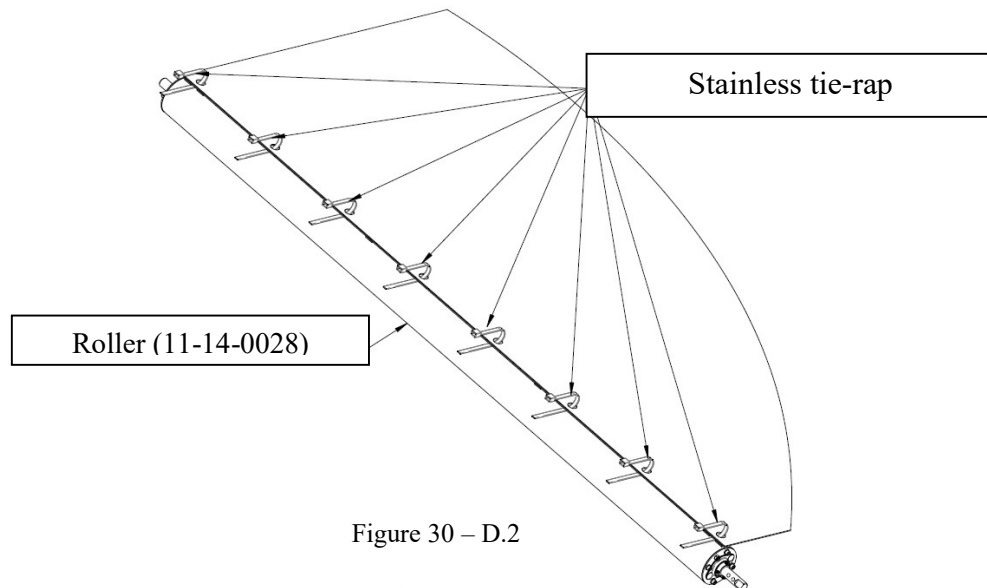


Figure 30 – D.2

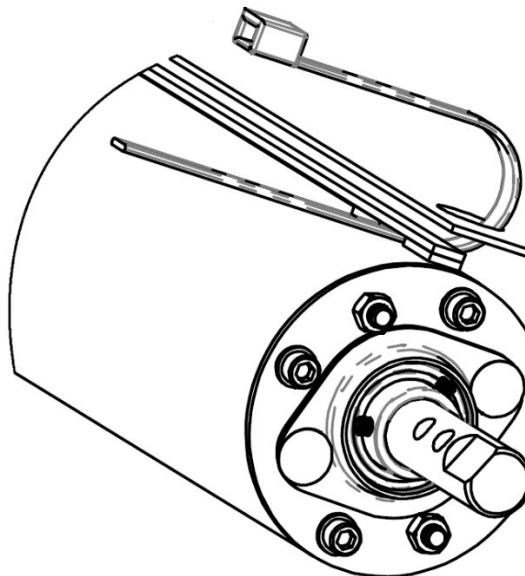


Figure 31 – D.2

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Air tarp system

Step E:

Tarp spring adjustment.

E-1: Install two eyebolts (15-05-0039-1) on the spring bracket (11-14-0041-16).

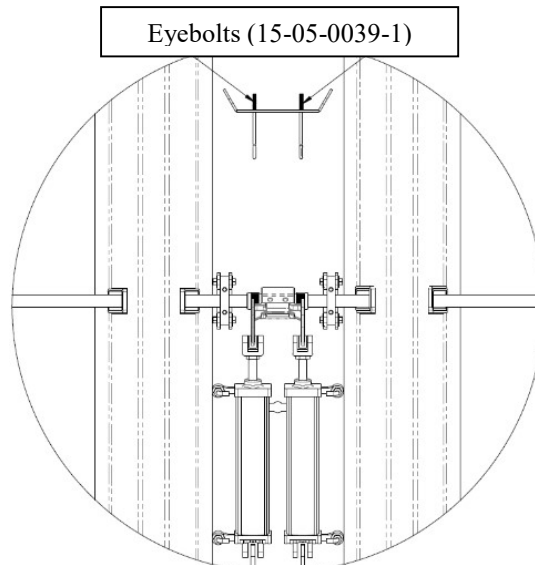


Figure 32 – E.1

E-2: install two spring (15-14-0041-16). After, adjust the tension with eyebolts.

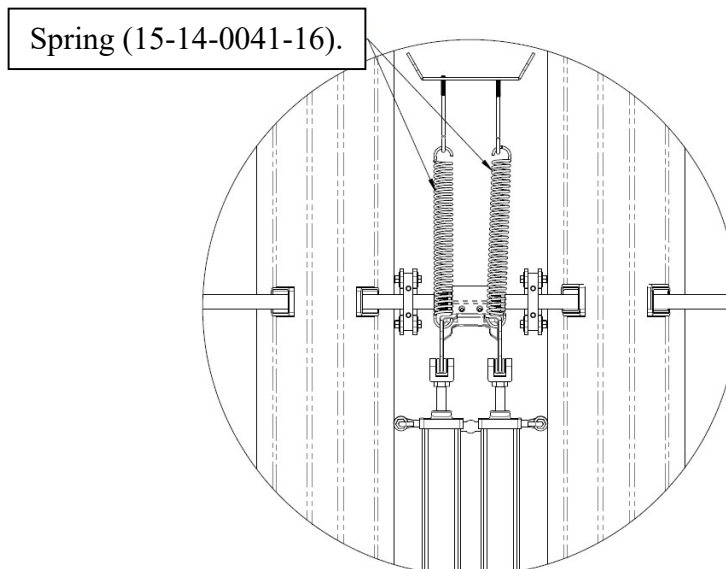


Figure 33 – E.2

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Cab shield

It is important to verify the height of the cab because it may vary from one model to another. We recommend a minimum of 3 inches clearance above the horn or any other objects above the cab right up to the underneath of the cab shield so that the cab shield does not interfere with those. See fig. 15.

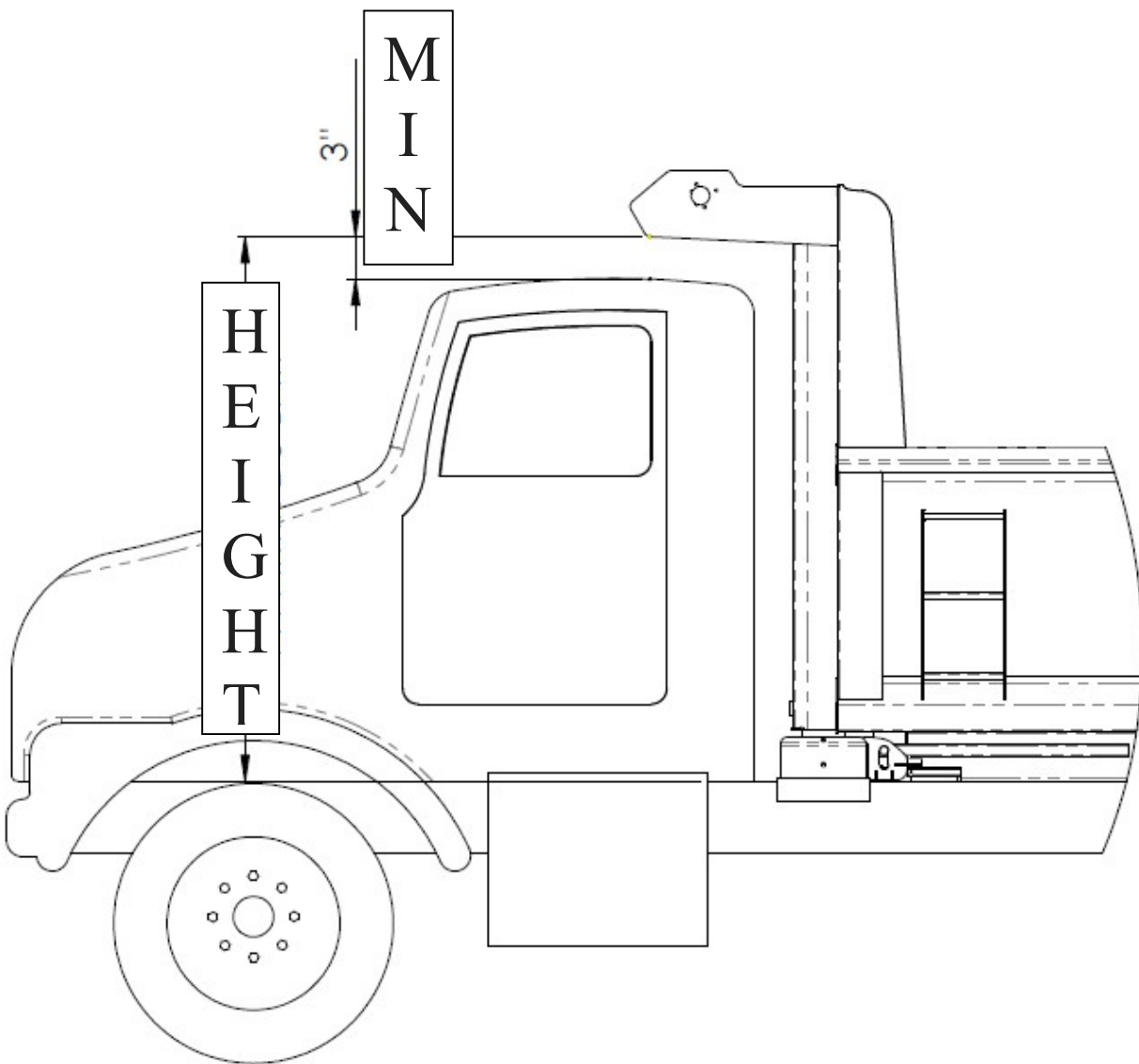


Figure 34 – Cab shield height

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Body Prop

Step 1.

Weld support (B), at 6" 1/16 of the side.

- Double Body Prop: weld supports on bolt sides at 6" 1/16.

Step 2. (Only "DOG HOUSE" dump)

Under the dump, weld support (F) center with tube (C). (See figure 17)

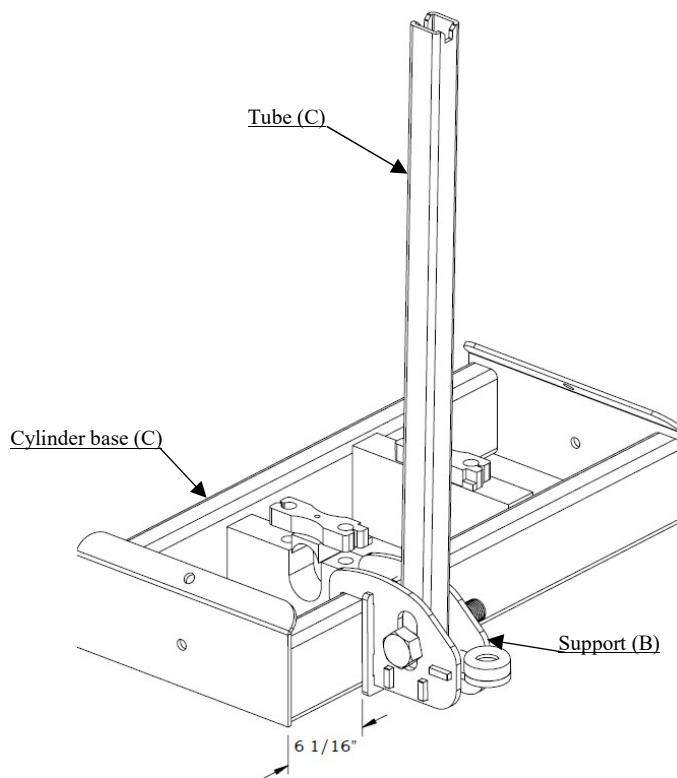


Figure35– Body Prop

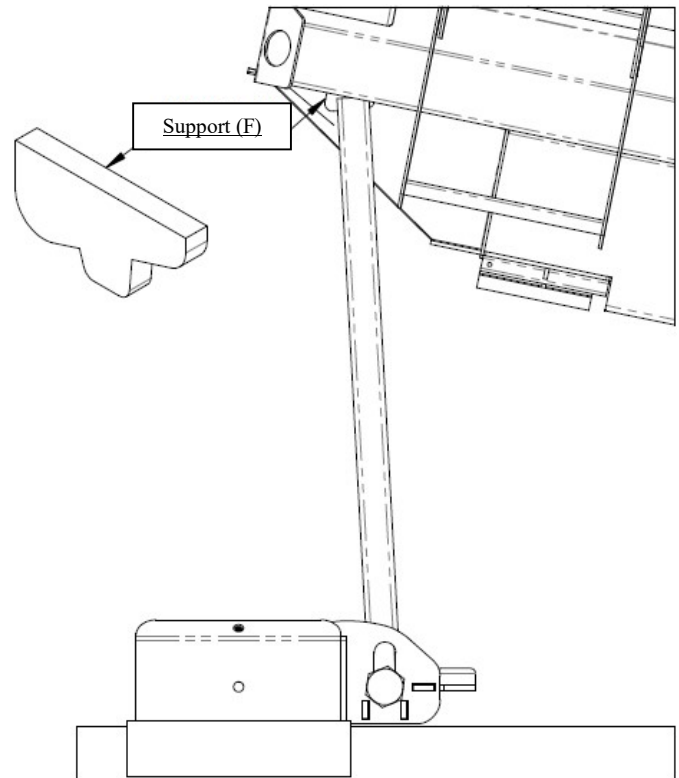
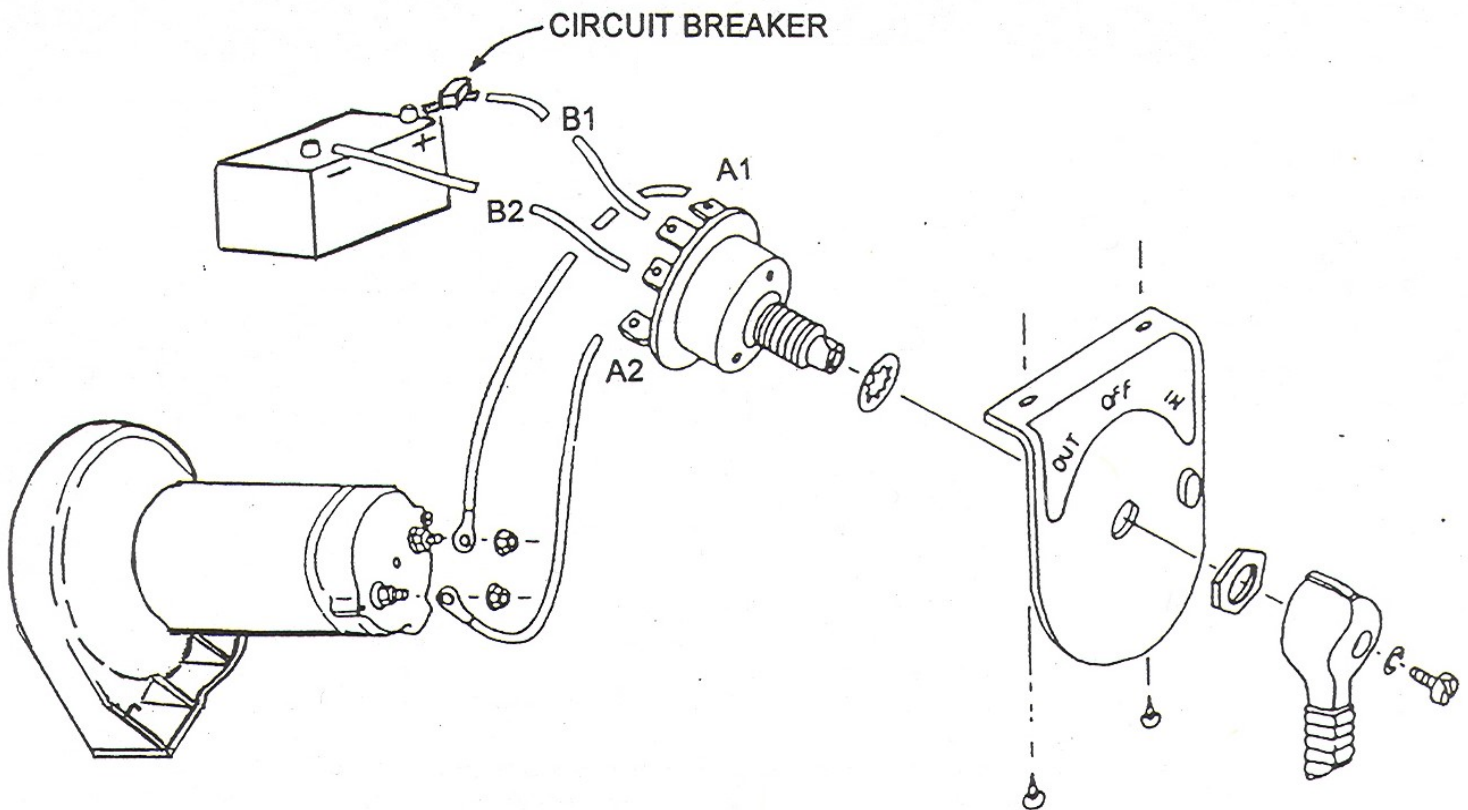


Figure 36 – Body Prop

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Electric tarp roller Diagram





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Preparing the surface for painting

Carefully prepare the surface as follows:

1. Sand the epoxy primer with Scotch-Brite industrial
If you use sandpaper, choose P120 to 180 grit
2. Clean dust or contaminant with solvent cleaner recommended for bodywork.
3. The surface is ready for a finish coat.