Step 1. Mounting Positions
Determine the mounting position for your truck Fig. 1 - Fig. 7.

**Fig. 1**
"A" Mount Top Or Bottom Roll

**Fig. 2**
"B" Mount Top Or Bottom Roll

**Fig. 3**
"C" Mount Top Or Bottom Roll

**Fig. 4**
"D" Mount Top Or Bottom Roll

**Fig. 5**
"E" Mount Top Or Bottom Roll

**Fig. 6**
"F" Mount Top Or Bottom Roll

**Fig. 7**
Optional Spacer Rod
Part # 501-9902

"G" Mount Top Roll Only
NOTE: All systems that roll off the top require optional spacer rod shown above.

"B" Brackets
NOTE: Use optional "B" Brackets when mounting in position "B" and "E".
Step 2A. Remove Tarp Before Welding

*Before welding remove tarp to avoid damage (Fig. 9A)*

To remove tarp, pull the tarp all the way out over tailgate. Insert 3/8" x 2" bolt through hole in end plate and into groove on roller tube. This will lock spring tension in roller tube. Slide tarp out of roller tube and away from work area.
Step 2B. Weld System To Truck
Stitch weld system mounting bar to truck every 6" as shown in Fig. 9B.

Step 3. Dimple Tailgate for Rope Guide
Check the top of the tailgate where your tarp goes over for any obstructions that may interfere with the tarp laying flat all the way across the tailgate area.

**WARNING:** Sharp Edges May Cut Tarp.
Measure tailgate to find center and mark. Heat at mark with torch until area is red hot. Use a 3/4" diameter solid bar and lay it on the spot and strike it a few times. A smooth indentation should be left that will keep the rope centered. (Fig.10) & (Fig.11)

Step 4. Weld on Tarp Return Ramps
The Tarp Return Ramps hold the pullrod in place once the tarp has been deployed. The ramps should be welded as high as possible. See (Fig.12 & Fig.13 for your application). Make sure all rough edges are ground smooth. If you have a raised hinge you will need to add a Hinged Ramp Gusset (NOT SUPPLIED) see (Fig.14).
Step 5. Tarp Return Ramps for Belly Dumps

All belly dumps require special tarp return ramps. If you are not sure which type to use, call us at Pulltarps (800) 368-3075 for technical support.

**Jump Ramp**

On longer single units, you are too far from the return ramp to unlatch the Pullrod by hand so we developed the easy to operate Jump Ramp (Fig. 15). Pull the tarp out all the way. Lower your arm. Release some rope slowly and allow the Pullrod to slide forward and drop down into the Tarp Return Ramp.

1. Pull out and hook. (Fig. 16)

2. To retract, pull the pullrod up over the jump-ramp gusset and down a few inches. (Fig. 17)

3. Release a few feet of rope quickly and the spring in the roller will cause the Pullrod and tarp to jump over the return ramp and retract back to the system (Fig. 18).

On long belly dumps with short vertical sideboards, use the finger tarp return ramps. Weld the provided gussets to the box to create a Pullrod jump ramp (Fig. 19).

On short belly dumps, pull the tarp all the way out. Raise and lower to hook and unhook the Pullrod over the finger tarp return ramps (Fig. 20).
Step 6. Re-install Tarp
Before you re-install your tarp on the roller, make sure the roller has not lost its spring tension. If the roller is still locked with the locking bolt, the tension should have been maintained. Slide the front end of tarp (with beaded rod) into the slot of the roller from the opposite side of the locking bolt. If needed, lubricate the edge of the tarp with soapy water so it will slide into the roller slot easy. After the tarp is in place, make sure that it is centered on the roller with an equal amount of space on each end, and that the bead tubing is also equally spaced. Secure tarp and pullrod to tailgate with the pullrope. Hold the roller with one hand and remove the locking bolt with the other. Release pullrope from tailgate and cycle the tarp 2 or 3 times. This will ensure the tarp rolling up straight. If the tarp rolls up consistently off to one side or the other, you can offset the tarp to the opposite side on the roller to start with, this way the tarp will roll up as centered as possible. If you have side flaps or tie downs proceed to page 7 or 8.

**WARNING**
ALWAYS ROTATE COUNTER CLOCKWISE WHILE FACING THREADED END OF SHAFT OR DAMAGE TO SPRING WILL RESULT.

The roller comes pre-loaded from the factory. Should the roller lose tension for any reason during installation, you must pre-load the spring mechanism again before installing the tarp.

**IF ROLLER HAS LOST SPRING TENSION**
1. Locate the threaded end of the roller shaft.
2. Rotate roller tube counter clockwise by hand 4 to 5 times until you feel some spring resistance.
3. Count the number of turns from that point.

<table>
<thead>
<tr>
<th>Approximate Pre-load Turns</th>
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<tbody>
<tr>
<td>Tarp Length</td>
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<tr>
<td>Tarp Length</td>
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<tr>
<td>Turns</td>
</tr>
</tbody>
</table>

Flaps (Longer tarps with flaps may require an additional 5 to 10 turns)
4. If the tarp doesn't wind up all the way add 5 turns at a time until tarp winds up completely. If the tarp still won't wind up after 60 turns call (800) 368-3075

Step 7. Rope Storage Hook
Installation
Mount the rope as low as possible. The rope should come straight down and wrap around the center hook and then coil off to the side (Fig.21). When tarp is not in use, space the hooks far enough apart to store the full length of rope (Fig.22).

Note: Tarp must be retracted when dumping
Step 8. Optional Tie Down Tarp, Rope and Hook Installation

Parts: Tie Down Hooks (Steel or Alum.)
Pull Down Hook

The Location Of The Tie Down Hooks Is Critical!

Flip the braided rope over the corner so that the rope and tie down flaps hang over each side of the box. The number of tie down hooks vary depending on the length of your tarp. One pull down hook is included with your Pulltarp system. If needed. Use the hook to pull the braided rope and tie down flap over the side of the box.

The tie down hooks must be positioned so that:

a. The tie down rope can be reached from the ground.
b. The bungee cord has to be stretched to reach the last hook (see step 9).
c. The rope has no slack.
d. The tie down hooks are level with one another.

To ensure proper hook placement, first duct tape the rope to the box in place of the tie down hooks. Start with hook closest to the cab.

1. Position the first hook 2" (5.08cm) forward of first tie down (Fig.23).
2. Position middle hook between tie downs (Fig.24).
3. Position last hook at the end of the box (Fig.25).
4. Weld hooks in place level with one another.
Step 9. Optional Flap Tarp, Rope and Hook Installation

Parts: Tie Down Hooks (Steel or Alum.)

Pull Down Hook

The Location Of The Tie Down Hooks Is Critical!

Flip the braided rope over the corner so that the flaps and tie down ropes hang over each side of the box. The number of tie down hooks vary depending on the length of your tarp. One pull down hook is included with your Pulltarp system. If needed. Use the hook to pull the braided rope and flap over the side of the box.

The tie down hooks must be positioned so that:

a. The tie down rope can be reached from the ground.
b. The bungee cord has to be stretched to reach the last hook (see step 9).
c. The rope has no slack.
d. The tie down hooks are level with one another.

To ensure proper hook placement, first duct tape the rope to the box in place of the tie down hooks. Start with hook closest to the cab.

1. Position the first hook 6” (15.24cm) down and 12” (30.48cm) forward (toward the cab) from the first grommet (Fig.27).
2. Position 2nd hook straight down from 1st grommet. This hook should be reached from ground (Fig.28).
3. Place middle hooks equal distances from grommet (Fig.29). These hooks should be placed at the same height as the second hook.
4. Position last hook (closest to the tailgate) below the last grommet at the same height as the others (Fig.30).
5. Weld hooks in place.

CORRECT

Fig. 30

INCORRECT
**Step 10. Bungee Cord Installation**

After side hooks are installed, the tie down rope must be installed and cut to proper length. It is important to get all of the slack out of the rope to prevent blowing and rubbing of flaps in windy conditions.

**Parts:**
- 2 Bungee Cords,
- 2 Oval Compression sleeves,
- 1 Snap Clip

**Tarps with Tie Downs**

To tighten, pull loose end of rope through the Oval Compression Sleeve (Fig.31). Stretch the bungee cord making sure all slack is taken out of the rope, crimp compression sleeve (Fig.32).

**Tarps with Side Flaps**

To tighten, pull loose end of rope through the Oval Compression Sleeve (Fig.33). Stretch the bungee cord making sure all slack is taken out of the rope, crimp compression sleeve (Fig.34).

**Note:** Check for proper placement of rope through the last two hooks.

**Snap Clip installation**

Flip the rope back on top of the tarp, making sure to hold the bungee at all times. The first snap clip is factory installed 5'-6” from the pullrod. Open the clip and enclose the rope. Weave the second clip through the main pullrope where the ends of the bungee cords meet the main pullrope. Make sure the rope is taught when clipped. **NOTE: First snap clip should not be used on long wheel base belly dumps.**

**Excess Rope**

You may need extra rope to keep the side flap system ground operated. If your application requires extra rope, the slack needs to be taken up by attaching the end of the bungee cord to an alternate hook. (pictured below)
6" OPEN SYSTEM
(#101-0235 WIDTHS OF 80,84,87,89,93,96,100"

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART#</th>
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<th>QTY</th>
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<td>501-0301</td>
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<tr>
<td>19</td>
<td>501-0302</td>
<td>TARP RETURN RAMPS (ALUM.)</td>
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<tr>
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<td>21</td>
<td>501-0642</td>
<td>ROPE STORAGE HOOK (ALUM.)</td>
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<td>25</td>
<td>504-3103</td>
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<td>27</td>
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<td>28</td>
<td>501-0203</td>
<td>6&quot; OPEN END PLATE, (DRVR.)</td>
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<td>6&quot; OPEN END PLATE, (PASS.)</td>
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<td>34</td>
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PULL ROD HARDWARE

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<td>1/2&quot;-13 CRIMP NUT</td>
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<td>505-5002</td>
<td>NYLON WASHER</td>
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<td>501-1521</td>
<td>OPEN SYSTEM MOUNT BRKT, (LEFT)</td>
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<td>501-1522</td>
<td>OPEN SYSTEM MOUNT BRKT, (RIGHT)</td>
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<td>505-2502</td>
<td>1/4&quot; FLAT WASHER USS</td>
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<td>504-3103</td>
<td>5/16&quot;-18 NYLOC NUT</td>
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<td>501-0801</td>
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<tr>
<td>501-0203</td>
<td>6&quot; OPEN END PLATE, (DRVR.)</td>
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<tr>
<td>501-0204</td>
<td>6&quot; OPEN END PLATE, (PASS.)</td>
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<tr>
<td>503-2503</td>
<td>1/4&quot;-20 x 1/2&quot; lg. HHCS BOLT</td>
<td>3</td>
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<tr>
<td>506-2503</td>
<td>1/4&quot; LOCK WASHER</td>
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<tr>
<td>501-9902</td>
<td>SPACER ROD 7/8&quot; (OPTIONAL)</td>
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<tr>
<td>503-7501</td>
<td>3/4&quot;-10 x 1 1/2&quot; lg. HHCS BOLT (OPTIONAL)</td>
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<tr>
<td>501-0804</td>
<td>STEEL SPRING SHAFT ANCHOR</td>
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</table>
9" OPEN SYSTEM  (#105-0235 WIDTHS OF 80,84,87,89,93,96,100")

**PULLROD HARDWARE**

<table>
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<th>ITEM</th>
<th>PART#</th>
<th>DESCRIPTION</th>
<th>QTY</th>
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<tbody>
<tr>
<td>17</td>
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<td>18</td>
<td>501-0302</td>
<td>TARP RETURN RAMPS (ALUM.)</td>
<td>2</td>
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<tr>
<td>19</td>
<td>501-0643</td>
<td>ROPE STORAGE HOOK (STEEL)</td>
<td>4</td>
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<tr>
<td>19</td>
<td>501-0642</td>
<td>ROPE STORAGE HOOK (ALUM.)</td>
<td>4</td>
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<tr>
<td>20</td>
<td>517-10XX</td>
<td>PULL ROPE 20,25,30,35,40,45,50'</td>
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<td>1 1/4&quot; GRAY PVC</td>
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<td>25</td>
<td>501-1410</td>
<td>RELIANCE SLEEVE</td>
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**ITEMS FOR SPECIFIC WIDTHS**

- **TARP RETURN RAMPS**
  - STEEL: 501-0301
  - ALUM.: 501-0302
- **ROPE STORAGE HOOK**
  - STEEL: 501-0643
  - ALUM.: 501-0642
- **PULL ROPE**
  - 20,25,30,35,40,45,50': 517-10XX
- **PULLROD**
  - (85,91,93,96,99,105" LENGTHS): DETERMINED
- **PULL ROD WASHER**
  - 2 1/2": 505-0201
- **TARP GUIDE STEEL**
  - 1.5" x 5.5": 501-0644
- **1 1/4" GRAY PVC**: 517-0106
- **RELIANCE SLEEVE**: 501-1410

**OTHER ITEMS**

- **ROLLER ASSEMBLY**
  - 80,84,87,89,93,96,100": 501-13XX
- **1/2" AN FLAT WASHER**
  - 505-5001
- **1/2"-13 CRIMP NUT**
  - 504-5001
- **NYLON WASHER**
  - 505-5002
- **OPEN SYSTEM MOUNT BRKT.**
  - 501-1526
- **1/4" FLAT WASHER USS**
  - 505-2502
- **5/16"-18 NYLOC NUT**
  - 504-3103
- **5/16"-18 x 3/4"lg. CARRIAGE BOLT**
  - 503-3104
- **SYSTEM END PLATE STUD 2.4"**
  - 501-0801
- **9" OPEN END PLATE, (DRVR.)**
  - 501-0219
- **9" OPEN END PLATE, (PASS.)**
  - 501-0220
- **PULL ROPE 20,25,30,35,40,45,50'**
  - 503-2503
  - 1/4"-20 x 1/2"lg. HHCS BOLT: 505-2503
  - 1/4" LOCK WASHER: 505-9002
  - SPACER ROD 7/8" (OPTIONAL): 503-7501
  - 3/4"-10 x 1"lg. HHCS BOLT (OPTIONAL): 501-0804
  - STEEL SPRING SHAFT ANCHOR: 501-13XX

**QTY**

- 501-13XX: 1
- 505-5001: 1
- 504-5001: 1
- 505-5002: 2
- 501-1526: 2
- 505-2502: 6
- 504-3103: 6
- 503-3104: 6
- 501-0801: 1
- 501-0219: 1
- 501-0220: 1
- 503-2503: 3
- 505-2503: 3
- 505-9002: 1
- 503-7501: 2
- 501-0804: 1

**REV: 9/10/03**