Proudly built in the USA
Owner’s Manual TC-420, TC-430 & TC-435
with Fixed or Drop Sides
Hoist, Sub-Frame, Dump Body and Options

TruckCraft Corporation
Chambersburg, PA
1-800-755-3867
www.TruckCraft.com
The TruckCraft hoists are designed for use with TruckCraft’s 9’-4”, 11’, and 11’-5” aluminum dump bodies.
Preface
Read and understand all sections of this manual prior to installing or operating the TruckCraft hoist. This manual contains information for the installation, operation, and maintenance of the TruckCraft TC-430 and TC-435 Hoist, Sub-Frame and Dump Body. Proper care and operation of the unit will assure years of dependable service. Your local TruckCraft Dealer will instruct you in its general operation. TruckCraft Corporation will be glad to answer any questions that may arise regarding the operation of your unit.

Ordering Repair Parts
When service is necessary, your local TruckCraft dealer can provide assistance. Always obtain original TruckCraft replacement parts from your dealer. Substitute items could affect the performance and warranty of the unit. Dealers in your area can be found on the web at www.TruckCraft.com. When ordering parts the dumper assembly serial number, pump serial number and description or part number of parts needed are required. The dumper serial number is located on the drivers side of the front face (behind truck cab) of the dumper body. The pump serial number is located on the top of the valve block.

Dumper Serial Number: _______________________

Pump Serial Number: _______________________

Date of Purchase: _______________________

Purchased From: _______________________

TruckCraft Telephone #800.375.3867 or 717.375.2900
TruckCraft Fax #717.375.2975
Method of shipping parts to be specified such as customer pickup, UPS, Common Carrier, Parcel Post or Air Freight. All orders to be confirmed in writing, or faxed, to insure proper understanding of request.
Having preventative maintenance parts on hand could save valuable time.

Improvements and Changes
Because TruckCraft strives to continually improve our products, we reserve the right to make changes and improvements wherever practical, without obligation to make those same changes or improvements to the equipment already sold. Photographs used in this manual may not be up-to-date with current design changes.
# Safety Information

Observe the following safety procedures during the use of the hoist and dump body: Before operating read and understand all information furnished with your hoist and in this manual.

- Keep hands, feet and clothing away from moving parts.
- Keep hinge pins and bushings well greased—inspect regularly for proper operation during rotation.
- Never exceed the rating of the hoist, truck, axles, or tires. Make certain the load is evenly distributed.
- Never work under a raised body unless the body is supported by blocking or propped in the raised position. Always unload the body prior to using the prop.
- Operate the hoist only when the truck is on a firm, level surface.
- Always inspect the area around the truck for safe dumping prior to operating the hoist.
- Do not move the truck with the body in a raised position.
- Always release the tailgate pins prior to raising the dump body when it is loaded. The tailgate pins **should not** be released with a load against the tailgate.
- Store the remote control in a location that assures that no object can come in contact with the raise button unintentionally.
- Before raising the dumper, check for adequate overhead clearance. Be alert for overhead electrical wires.
- Always ensure that the red warning light is off, indicating that the body is all the way down, before operating the truck.
- Regularly check and tighten all fasteners to the recommended torque values in the Torque Chart shown below.
- Maximum hydraulic pressure is factory set at 3200 PSI. Tampering with this setting can damage hydraulic components and result in system failure.
- Use automatic transmission fluid in the hydraulic reservoir. Check regularly and keep clean.

## Torque Chart - Steel Fasteners

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<thead>
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<th>Size</th>
<th>Grade 5 (Lb-Ft)</th>
<th>Grade 8 (Lb-Ft)</th>
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</tr>
<tr>
<td>3/4-10</td>
<td>220-230</td>
<td>315-330</td>
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Certifying and Labeling Chassis-Cabs after mounting TruckCraft dump body

New chassis-cabs are supplied by the manufacturer with incomplete vehicle documentation (IVD). According to the National Highway Traffic Administration, “NHTSA”, regulations a “manufacturer” is a person who performs a manufacturing operation on a new incomplete vehicle. A Final Stage Manufacturer is a person who performs such manufacturing operations on an incomplete vehicle that it becomes a complete vehicle. It is the responsibility of this Final Manufacturer to affix an approved label to the vehicle certifying that the vehicle meets all applicable Federal Motor Vehicle Safety Standards. Regulations also require certification in many instances when mounting a dump body on a used chassis-cab.

It is strongly recommended that anyone contemplating mounting a TruckCraft dump body and not familiar with the regulations obtain a copy of the National Truck Equipment Association’s, “NTEA’s”, “Vehicle Certification Guide”. Thoroughly read and understanding all sections of this guide before attempting to certify a completed vehicle. The “Guide”, free to NTEA members, costs $149 and can be purchased on the NTEA website, www.NTEA.com.

Below are answers/recommendations to key certification questions:

1) If the end-user purchases a new cab-chassis and mounts the dump body, does the completed vehicle need to be certified?

Per the NTEA “Guide” page 9B, “When the ultimate customer purchases an incomplete vehicle and installs additional equipment, he becomes, in effect, a manufacturer and thus is subject to the certification and registration requirements of the Act.”

2) What must an end-user/manufacturer do in order to be able to certify a completed vehicle?

Per the NTEA “Guide” pages 1C and 2C, Chapter 1, all manufacturers need to register with the NHTSA on form (49 CFR 566) - a copy of which is included in the book.

3) Will the chassis-cab safely handle the weight of the dump body and payload?

The Incomplete Vehicle Manual usually contains information on calculating maximum completed vehicle weights and acceptable horizontal and vertical combined centers of gravity for compliance to the Federal Motor Vehicle Safety Standards. If not supplied with the chassis-cab, this information should be obtained from the truck dealer and calculations need to be performed to make sure limits are not exceeded. Based on the maximum axle weight limitations, calculations should also be run to determine the maximum payload capacity of the dump body.
4) What are the steps to certifying and labeling the completed vehicle?

Chapter 5, pages 1F through 4F, of the NTEA “Guide” outline this procedure when certification is within the guidelines of the Incomplete Vehicle Manual. Certification labels, item #2159, can be purchased from the NTEA in quantities of 100 labels per order.

5) What are the Tire and Loading label requirements?

Vehicles with a gross vehicle weight rating (GVWR) of 10,000# or less are required to have a Tire and Loading label. Chapter 7, 1H through 4H, of the NTEA “Guide” outlines the procedure for calculating the data on this label. This label, item #1220, can also be purchased in quantities of 60 from the NTEA.
**Mounting Instructions**

**CAUTION:** Verify lifting and support devices can support the hoist, sub frame, and dump body combined weight before picking up the assembly.

The hoist, sub-frame and dump body are normally shipped assembled and ready to install on a truck frame—see Figure 4. Truck manufacturers recommend that the sub-frame does not contact the top of the frame. A gap can be established by attaching 1/4” thick wooden strips on top of the frame or installing a spacer layer of adhesive backed, high strength neoprene rubber on top of the frame. However, solid connections between the truck frame and the sub-frame are required at the location where the hoist pins to the sub-frame and at the rear of the frame. When mounting with a 1/4” gap, the steel spacers supplied with the kit need to be installed between the truck frame and the sub-frame at the hoist mount location—see Detail A. This spacer can be eliminated if the sub-frame is mounted directly on top of the truck frame with no space between the two.

1. Set the assembly on top of the frame or spacer and position it a minimum of 3.5” from the cab as shown above in Figure 4. Always make sure there is a solid connection between the sub-frame and the truck frame at the rear in the dump body pivot area and the hoist mount area shown in detail “A”. If the rear pivot centerline extends beyond the rear of the frame, an angle iron brace or similar structure can be welded across the back of the frame to support the pivot.

2. Position the sub-frame mounting brackets along the sides of the frame in an area where the brackets do not interfere with existing frame bolts or hardware—see Figure 5. Flipping the brackets or moving to alternate holes drilled in the sub-frame usually
eliminates interference. However, additional holes can be drilled in the sub-frame as required. Use shims supplied to fill any gaps between mounting brackets and the frame or sub-frame. Mark the location for mounting holes in the frame and drill 8 holes (12 on TC-430) 21/32” diameter for 5/8” grade 8 bolts supplied.

**Caution:** Be careful of wiring, brake lines, etc. inside frame when drilling. Install bolts, nuts and 2 washers per hole and torque to 180 FT-LBS.

3. Route control cable into cab and install remote control box in an area where the up button will not be unintentionally bumped.

4. Route power supply cable to battery and hook up leads to battery.

5. Make sure all blocking and tie-downs used for shipping are removed. Activated the remote control up button and carefully raise the body. Do not reach under or place any body parts under the dump body. Raise the body up about half way to about 30 degrees from horizontal. Rotate the safety prop counterclockwise until it rests on the angle stop on the hoist—see figure 6. Carefully lower the hoist until the cross shaft of the hoist rests on the prop. **Do not power down the hoist after the shaft rests on the prop.** With the prop in this position it is now safe to work under the dump body.

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**CAUTION:**

- The TruckCraft assembly is designed to bolt to the truck frame. **Do not weld any part of this assembly to the truck frame.**
- Openings have been provided in the side of the sub-frame for fuel tank fill spouts. If additional holes are required in the sub-frame, the holes must be a maximum of 2.5” in diameter and centered in the web. Never cut the top or bottom flanges of the sub-frame.
6. With the safety prop supporting the dump body and the truck level, check the depth of the oil in the hydraulic reservoir. The depth of the fluid in the tank at this position should be 3”. Use automatic transmission fluid only to fill the reservoir to this level.

7. Apply grease at nine grease zerks:
   ✓ One on rod end of cylinder
   ✓ One on barrel end of cylinder

**Warning:**
*Never use the safety prop to support a loaded deck. Never position yourself under a loaded deck.*

✓ Two on the cross shaft at the deck
✓ Two on the hoist cross shaft at the sub-frame mount
✓ One on each deck pivot hinge at rear of sub-frame
✓ One on the hoist link arm cross shaft
8. Install the light, mount bracket and decal shown in figure 7 on the dash inside the cab of the truck. Using the fuse holder, wire the light to the dump switch mounted on the front of the sub-frame across from the hydraulic reservoir. Use the schematic shown in figure 8 to connect the wiring. **Note:** Wire not supplied by TruckCraft.

9. Place the two decals A4-04684 and A4-04685 inside the cab on the dash in an easy to read location.

10. Connect the marker light wiring harness to the truck wiring.

11. Push the remote control up button. Raise the hoist high enough to drop the safety prop back into its storage position. Cycle the hoist through the complete stroke of the telescope cylinder a couple times to make sure everything works properly.
Maintenance
1. Depending on frequency of use, check hydraulic reservoir level and add oil. Periodically drain system and replace with clean oil. Use automatic transmission fluid only.
2. Depending on frequency of use, apply grease to all rotating parts at nine grease zerks.
3. Check to make sure that the bed up warning light illuminates when the bed begins to raise. Adjust switch or replace bulb as required.
4. Depending on frequency of use, check all bolts for proper tightness and torque.
REMOVE ALL BURRS, CHAMFER, OR RADIUS CORNERS.

TOLERANCES UNLESS OTHERWISE SHOWN:

DECIMALS

TWO PLACES .00 ±.030

THREE PLACES .000 ±.005

ANGLES ±1°

DO NOT SCALE DRAWING.

Hoist & Subframe-6" Cyl. 620.77 lbm

D1-04829 Gerry L21

2/15/2008

5751 Molly Pitcher Highway
Chambersburg, PA. 17201
717-375-2900
FAX 717-375-2975

Installer to hook Item #9 to battery

Installer to mount items shown in Detail H inside cab of truck.

Mount decals shipped loose in truck cab.

See view F-F for attachment location of hoses on cylinder.

Attach 50" hose to this end of cylinder and to "C2" hoist lower port on pump.

Attach 36" hose to this end of cylinder and to "C1" hoist raise port on pump.

Ship switch loose. Installer to mount to deck.

Ship Decals Loose. Installer to mount on deck.

Note Manual P/N; 16-04686 TC-520, TC-530 & TC-540
15-06301 TC-420, TC-430 & TC-435

Attach 50" hose to this end of cylinder and to "C2" hoist lower port on pump.

Dash Pilot Lamp

Hot Wire From Truck Electrical System

Connecting wiring by installer.

Dump Bed Raised Lamp

Wiring Diagram

Dump Switch

Ground

Connecting wiring by installer.

"C2" Hoist lower port

"C1" Hoist raise port

Attach 50" hose to this end of cylinder and to "C2" hoist lower port on pump.

Attach 50" hose to this end of cylinder and to "C2" hoist lower port on pump.

Installer to hook Item #9 to battery

Mount decals shipped loose in truck cab.

See view F-F for attachment location of hoses on cylinder.

Attach 50" hose to this end of cylinder and to "C2" hoist lower port on pump.

Dash Pilot Lamp

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Dump Switch

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Attach 50" hose to this end of cylinder and to "C2" hoist lower port on pump.

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Mount decals shipped loose in truck cab.

See view F-F for attachment location of hoses on cylinder.

Attach 50" hose to this end of cylinder and to "C2" hoist lower port on pump.

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Connecting wiring by installer.

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Wiring Diagram

Dump Switch

Ground

Connecting wiring by installer.

"C2" Hoist lower port

"C1" Hoist raise port

Attach 50" hose to this end of cylinder and to "C2" hoist lower port on pump.

Attach 50" hose to this end of cylinder and to "C2" hoist lower port on pump.

Installer to hook Item #9 to battery

Mount decals shipped loose in truck cab.

See view F-F for attachment location of hoses on cylinder.

Attach 50" hose to this end of cylinder and to "C2" hoist lower port on pump.
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<td>41</td>
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<td>Hex Head Cap Screw</td>
<td>0.10 lbm</td>
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<td>Hex Head Cap Screw</td>
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**Hoist Ass’y P/N**

| D1-04828 | 19 | D3-04448 | 21 | D3-04549 |
| D1-04829 | 19 | D3-04448 | 21 | D3-04549 |
| D1-06517 | 19 | D3-04792 | 21 | D3-05558 |

**Hoist & Subframe-6” Cyl.**

TC-540170” Deck

**Landscapeg 9-10 Body**
Optional Cabguards:
D3-04880 Short Sides/Half Cab
D3-04920 Tall Sides/Half Cab
D3-04921 Tall Sides-Quarter Cab

<table>
<thead>
<tr>
<th>Item</th>
<th>Part #</th>
<th>Rev</th>
<th>Qty</th>
<th>Name</th>
<th>Weight</th>
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<tr>
<td>1</td>
<td>D1-04676</td>
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<td>Dump Body Ass'y/Drop Sides</td>
<td>1163.478 lbm</td>
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<td>2</td>
<td>B4-04184</td>
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<td>Large LOGO Decal - 3D Effects</td>
<td>0.003 lbm</td>
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<tr>
<td>3</td>
<td>B4-04264</td>
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<td>Decal Strips /Passengers Side</td>
<td>0.067 lbm</td>
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<td>4</td>
<td>B4-04266</td>
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<td>Decal, &quot;Lift Here&quot;</td>
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<td>Decal Strips / Drivers Side</td>
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<td>6</td>
<td>B4-04277</td>
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<td>Decal, &quot;Lift Here&quot;</td>
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<td>7</td>
<td>B4-04292</td>
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<td>2</td>
<td>Multi Step Kit / Drum Rear Wheel</td>
<td>220.8 lbm</td>
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<td>8</td>
<td>D5-05021</td>
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<td>8</td>
<td>Plug, Snap In - Off-white</td>
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<td>9</td>
<td>D4-05609</td>
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<td>Decal / Danger - Tailgate</td>
<td>0.048 lbm</td>
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<tr>
<td>10</td>
<td>D3-04920</td>
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<td>1</td>
<td>Cab Guard Weldment - Short/Quarter</td>
<td>601.6 lbm</td>
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<td>11</td>
<td>D3-04928</td>
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<td>1</td>
<td>Cab Guard Ass'y w/ Extension</td>
<td>665.0 lbm</td>
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<tr>
<td>12</td>
<td>D3-04924</td>
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<td>1</td>
<td>Cab Guard Ass'y w/ Extension</td>
<td>620.0 lbm</td>
</tr>
</tbody>
</table>

- Mount decals A4-04684 & B4-04077 called out on B/M D1-04828 & D1-04829 approx. in the area shown on both sides of deck.
- Mount decals shipped loose in truck cab.
- Installer to hook power supply cable to battery.
- Mount decals on both sides of deck or dump body approx. in area shown.
- Place serial number decal on front face of dump body near tailgate locking lever.
- Ship Mudflaps Loose.
- Ship Mudflaps Loose.
- Far Side & Tailgate
### Table of Contents

<table>
<thead>
<tr>
<th>Ass'y P/N</th>
<th>Length</th>
<th>Trucks Item <strong>&quot;A</strong>**&quot; Item <strong>&quot;B&quot;</strong></th>
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<tbody>
<tr>
<td>D1-04901</td>
<td>9'-4&quot;</td>
<td>D1-04901 11 D1-04904 19 D1-04905 19</td>
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<tr>
<td>D1-04904</td>
<td>11'-0&quot;</td>
<td>D1-04904 11 D1-04904 19 D1-04905 19</td>
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<tr>
<td>D1-06111</td>
<td>11'-5&quot;</td>
<td>D1-06111 11 D1-06111 19 D1-06111 19</td>
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</tbody>
</table>

### Ass'y Notes

1. REMOVE ALL BURRS, CHAMFER, OR RADIUS CORNERS.
2. TOLERANCES UNLESS OTHERWISE SHOWN:
   - TWO PLACES: ±0.000
   - THREE PLACES: ±0.000
3. ANGLES ±1°
4. DO NOT SCALE DRAWING.

### Revision History

D1-04901GerryL21

### Page 1

**Detail K**

---

**Title:** Body Ass'y/Fixed Sides/Ford, GM & Dodge 969.789 lbm

**Scale:** DATE: MATERIAL: APPR. BY: DRAWN BY: DWG. NO.

**Page:** 12

**751 Molly Pitcher Highway**

**Chambersburg, PA 17201**

**717-375-2900**

**FAX 717-375-2975**
Use two of item #10 at this location and two on the far side.

Punch end of bushing to prevent bearing working its way out of bushing. Typ. 6 places.
Use shims as required to align tailgate and tailgate pivot weldments.

Punch ends of bushing to prevent bearing working its way out of bushing. Use 6 Pcs.

1. None
2. Dump Body Assy/ Drop Sides 1163.478 lbm
3. 2/4/2008

**View H-H**

**Section A-A**

**Section J-J**

**Detail K**
REMOVE ALL BURRS, CHAMFER, OR RADIUS CORNERS.

TOLERANCES UNLESS OTHERWISE SHOWN:

DECIMALS

TWO PLACES .00 ±.030

THREE PLACES .000 ±.005

ANGLES ±1°

DO NOT SCALE DRAWING.
This Tailgate replaces Tailgate Weldment, D3-04609 when a Coal Chute is ordered.
Mounting Tarp:
1. Unfold tarp and stretch narrow width across crankshaft, lining up grommets along shaft.
2. Use radiator screw clamps, open them up and wrap them around the crankshaft threading them through the tarp, one per grommet, to attach the tarp to the shaft. Keep tarp taught from side to side.
3. Slide batten board through the looped end of the tarp until the board is centered in the tarp. In the center of the board, in the narrow side (at the very end of the tarp) drill a 3/16" dia. x 3/8" deep hole. Start the eye screw into the hole and turn until tight.
4. Attach tape to eye screw and wind tarp onto crankshaft.

<table>
<thead>
<tr>
<th>#</th>
<th>PN</th>
<th>Qty</th>
<th>Description</th>
<th>Mass</th>
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<tr>
<td>1</td>
<td>A4-00408</td>
<td>2</td>
<td>Flange Bearing, 3/4&quot;</td>
<td>0.078 lbm</td>
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<tr>
<td>2</td>
<td>P4-00574</td>
<td>4</td>
<td>Screw-Button Hd Hex Socket</td>
<td>0.040 lbm</td>
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<tr>
<td>3</td>
<td>P4-00566</td>
<td>4</td>
<td>Nyl Insert Lock Nut - .25-20 SS</td>
<td>0.041 lbm</td>
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<tr>
<td>4</td>
<td>A4-00358</td>
<td>1</td>
<td>Vinyl Handle Grip</td>
<td>0.072 lbm</td>
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<td>5</td>
<td>B3-00286</td>
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<td>Handle Weldment</td>
<td>3.729 lbm</td>
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<td>6</td>
<td>D3-04913</td>
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<td>Roller Weldment</td>
<td>8.488 lbm</td>
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<td>7</td>
<td>P4-00410</td>
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<td>Pin, Slotted Spring 3/16&quot; x 1.00</td>
<td>0.004 lbm</td>
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<td>8</td>
<td>P4-00411</td>
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<td>Screw Eye-Zinc Plated</td>
<td>0.013 lbm</td>
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<tr>
<td>9</td>
<td>D4-05579</td>
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<td>Tarp - 84&quot; W X 144&quot; L</td>
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<td>Batten Strip</td>
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<td>11</td>
<td>A4-00407</td>
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<td>Clamp, Worm Gear .94 - 1.50&quot; Dia</td>
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<td>12</td>
<td>R5-00412</td>
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<td>Rope - Polypropylene</td>
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</table>
Drill 7/8 (6/32) holes in frame to align with holes in hitch plate for 3/4 GR-8 bolts. Shim to eliminate any gap. 

<table>
<thead>
<tr>
<th>#</th>
<th>P/N</th>
<th>Qty</th>
<th>Rev</th>
<th>Name</th>
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<td>Pintle Hitch Bumper-Standard</td>
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<td>2</td>
<td>P5-05184</td>
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<td>Cap, 2.0 x 3.0 Tube Caplugs</td>
<td>#VRF-2000-3000-16 - Black</td>
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<td>3</td>
<td>P5-05527</td>
<td>6</td>
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<td>Hex Head Cap Screw Gr 8 .75-10 X 2.25 ZP Steel GR-8</td>
<td>2.51 lbm</td>
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<tr>
<td>4</td>
<td>P5-05013</td>
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<td>Flat Washer-Hardened ZP Steel/.69 ID x 1.31 OD x .122 Thk</td>
<td>0.41 lbm</td>
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<tr>
<td>5</td>
<td>P4-01261</td>
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<td></td>
<td>Nyl. Insert Lock Nut .75-10 ZP-Gr.8</td>
<td>0.90 lbm</td>
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</tr>
</tbody>
</table>

- REMOVE ALL BURRS, CHAMFER, OR RADIUS CORNERS.
- TOLERANCES UNLESS OTHERWISE SHOWN:
  - DECIMALS TWO PLACES: ±.030
  - DECIMALS THREE PLACES: ±.005
  - ANGLES ±1°

- DO NOT SCALE DRAWING.
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