Proudly built in the USA

Owner’s Manual TC-425

Hoist, Sub-Frame, and Dump Body
This TruckCraft hoist is designed for use with TruckCraft’s 10’-6” aluminum dump body mounted on an Isuzu truck chassis.
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-425 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.

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Special thanks to Packard Publishing Co. for permission to reproduce the illustration from its publication, The Hoistman's Handbook.
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, 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.

1. Set the assembly on top of the frame or spacer and position it approx. 6.5” from the cab as shown above in Figure 4.
2. Position the sub-frame mounting brackets along the sides of the frame in an area where the brackets line up with existing holes in the truck frame. Moving the sub-frame slightly to achieve alignment of holes may be required. Use shims supplied to fill any gaps between the mounting brackets and the frame. Mark the location for mounting holes in the frame and drill 10 holes 37/64” (.578) diameter for M14 Gr. 10.9 bolts supplied.

**Caution:** Be careful of wiring, brake lines, etc. inside frame when drilling.

3. Install bolts, nuts and 2 washers per hole, lubricate threads and torque to 133 FT-LBS.
4. Align the optional rear bumper/hitch plate with existing holes in the frame and mark location of 6 holes to be drilled. Drill 49/64” (.766) diameter for 3/4” Gr. 8 bolts supplied.
5. Install bolts, nuts and 2 washers per hole, lubricate threads and torque to 280 FT-LBS.
6. Route control cable into cab and install remote control box in an area where the up button will not be uninten-
tionally bumped.

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

8. If the optional bumper is used, install existing tail and license plate lights as shown in Figure 5.

9. Connect the dump body marker light wiring harness to the truck wiring.

10. 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.

**CAUTION:**

- The TruckCraft assembly is designed to bolt to the truck frame. No welding is required. **Do not weld any part of this assembly to the truck frame.**
- An Opening has been provided in the side of the sub-frame for the fuel tank fill spout. 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.

11. 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.

12. Apply grease at nine grease zerks:

- One on rod end of cylinder
✓ One on barrel end of cylinder
✓ 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.

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

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

10. 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.

11. If the optional fenders are being used, install fender mounting brackets using existing mounting holes in the sub-frame. Position the fenders per the dimension in Detail B and mark the hole locations on the fenders using the mounting clamps provided. Drill 3/8" (.375) diameter holes in fenders and mount with hardware provided.
**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.
Notes:
1. For the optional drop down side dump body, item #30 P/N is D1-05473.
2. For the optional Tall/Half cabguard, item #60 P/N is D3-04920.
Mark location of mount bolts on frame and drill 12 holes 19/32 (.594") Dia.
Lubricate threads and torque M14 bolts to 133 FT-LB.

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.

Adjust lock nuts to open switch contacts when deck begins to rise off subframe.
REMOVE ALL BURRS, CHAMFER, OR RADIUS CORNERS.

TOLERANCES UNLESS OTHERWISE SHOWN:

- DECIMALS
  - TWO PLACES: ±0.030
  - THREE PLACES: ±0.005

ANGLES ±1°

DO NOT SCALE DRAWING.

**Item | Part # | Qty | Name | Weight**
--- | --- | --- | --- | ---
1 | D3-05494 | 1 | Tailgate Weldment | 105.475 lbm
2 | P4-00615 | 16 | Hex Head Cap Screw | 0.586 lbm
3 | P4-00616 | 22 | NyI Insert Lock Nut, -38-16 SS | 0.526 lbm
4 | A4-01000 | 9 | Grommet, 23" | 0.430 lbm
5 | D4-04953 | 2 | Tailgate Pin | 0.214 lbm
6 | D3-04645 | 2 | Rear Hinge Weldment | 6.733 lbm
7 | P4-01040 | 22 | Flat Washer, -25 SS | 0.147 lbm
8 | P4-04640 | 1 | Clevis Pin | 0.116 lbm
9 | D4-04646 | 3 | Pivot Arm | 2.531 lbm
10 | D4-04647 | 4 | Connecting Link | 2.145 lbm
11 | D4-04646 | 2 | Locking Bar | 0.572 lbm
12 | D4-04002 | 1 | Pin, Lever Attach/Fixed Sides | 0.379 lbm
13 | D3-04671 | 1 | Tailgate Lever Weldment | 4.591 lbm
14 | P4-01571 | 2 | Rot Washer / MS15795 - .75 SS | 0.086 lbm
15 | D4-04697 | 1 | Rod, Threaded Ends | 0.535 lbm
16 | P4-04661 | 2 | Clevis Pin | 0.381 lbm
17 | P4-04660 | 5 | Clevis Pin | 0.464 lbm
18 | P4-04662 | 2 | Rod Pin, -19 X 2.5 SS | 0.205 lbm
19 | P4-04683 | 5 | Roll Pin, -219 X 175 Steel | 0.061 lbm
20 | P4-01099 | 1 | Cotter Pin | 0.030 lbm
21 | D3-05616 | 1 | Deck Weld, 10'-7" w/7" Stringers/Fixed Side | 33.882 lbm
22 | D4-04899 | 1 | Link Arm | 0.515 lbm
23 | D3-04666 | 1 | Clevis, Rod End - Weld. | 1.808 lbm
24 | P4-04664 | 1 | Clevis wt/Pin12-13 - I.P. | 0.427 lbm
25 | P4-04662 | 6 | Hex Range Nut | 0.383 lbm
26 | P4-04672 | 6 | Chain, Plain Cot - 25 X 35 Links | 2.852 lbm
27 | P4-04675 | 1 | Weld Ring w/6 Chain Links | 0.856 lbm
28 | P4-04677 | 1 | Bearing | 0.092 lbm
29 | A4-04450 | 7 | Light, Clearance | 0.150 lbm
30 | A4-04460 | 2 | Light, Clearance | 0.101 lbm
31 | A4-04852 | 1 | Vinyl Foam Grip | 0.070 lbm
32 | P4-04653 | 2 | Pin, Top Latch | 0.263 lbm
33 | P4-05590 | 10 | NyI Insert Lock Nut | 0.514 lbm
34 | A4-00548 | 4 | GLIDE Bearing, 10" | 0.156 lbm
35 | D4-04692 | 2 | Handle | 0.591 lbm
36 | P4-04691 | 1 | Knife, 150Dia | 0.107 lbm
37 | P4-00820 | 1 | Flat Washer, -50 SS | 0.165 lbm
REMOVE ALL BURRS, CHAMFER, OR RADIUS CORNERS.

TOLERANCES UNLESS OTHERWISE SHOWN:

- DECIMALS TWO PLACES: ±0.030
- DECIMALS THREE PLACES: ±0.005

ANGLES ±1°

DO NOT SCALE DRAWING.

1. None

Dump Body Ass'y/Fixed S. - 10'-7" 1016.463 lbm

D1-05615

Gerry L 22

2/17/2010

5751 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.
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**Dump Body Ass'y - 10'-7" 1192.84 lbm**

**DETAIL C**

- **DETAILED CENTER & BACK HINGES**
  - (4X)

**DETAIL D**

- **CENTER FRONT TWO HINGES**

**Diagram Details**

- **Page 14**
Using pilot hole in door plate, drill and ream .51 dia hole thru both plates for D4-04870 pin.

Use two of item #15 at this location and two on the far side.
Install bolts for fender mount in existing holes in sub-frame.

1. Bolt fender mounts to dumper sub-frame.
2. Slide U-bolts onto fender mount tubes.
3. Position fender in proper location as shown on drawing.
4. Mark eight mounting holes in fender and drill 3/8" dia holes through fender.
5. Mount fenders using u-bolts and flat washers as shown.
6. Install finishing plugs in ends of tubes.

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<td>Black 13/16&quot; Finishing Plug</td>
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<td>4</td>
<td>Black 13/16&quot; Finishing Plug</td>
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Remove all burrs, chamfer, or radius corners.

Tolerances unless otherwise shown:
- Decimal two places: ±.030
- Decimal three places: ±.005

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

Page 17
Existing Taillights
Use existing wiring harness to attach.

Existing License Plate Light. Attach to existing wiring harness.

Mark and Drill six 49/64 (.766) Dia holes thru frame using bumper as template.

Torque 3/4” Gr. 8 bolts to 330 Lb.-Ft Dry or 280 Lb.-Ft Lubricated.

Use bolts supplied with dumper at these two locations.

# | P/N   | Qty | Name                          | Weight |
---|-------|-----|-------------------------------|--------|
1  | D3-05524 | 1   | Pintle Hitch Bumper         | 102.63 lbm |
2  | P4-00587  | 6   | Hex Hd Cap Screw - 25-20 x 75 SS | 0.11 lbm |
3  | P4-00566  | 6   | Nyl. Insert Lock Nut - 25-20 SS | 0.06 lbm |
4  | P4-00569  | 6   | Flat Washer - 25 SS          | 0.02 lbm |
5  | P4-01261  | 4   | Nyl. Insert Lock Nut         | 0.60 lbm |
6  | P5-05013  | 8   | Flat Washer-Hardened        | 0.33 lbm |
7  | P5-05184  | 2   | Cap, 20 x 3.0 Tube           | 0.07 lbm |
8  | P5-05527  | 4   | Hex Head Cap Screw Gr 8      | 1.67 lbm |

TC-425 Hitch Plate & Bumper Instl
1. P5-05627 1 Pintle Hitch w/2.31" Ball 1.59 lbm
2. P4-04709 4 Hex Hd Cap Screw 0.61 lbm
3. P4-04710 4 Nyl. Insert Lock Nut 0.21 lbm

Mounting Bolts & nuts must be Gr. 8.
REMOVE ALL BURRS, CHAMFER, OR RADIUS CORNERS.
TOLERANCES UNLESS OTHERWISE SHOWN:
DECIMALS TWO PLACES .00 ±.030
THREE PLACES .000 ±.005
ANGLES ±1°

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 (left 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 rope to eye screw and wind tarp onto crankshaft.
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