Proudly built in the USA

Owner’s Manual TC-415 with Fixed or Drop Sides

Hoist, Sub-Frame, Dump Body and Options
The TruckCraft hoists are designed for use with TruckCraft’s 8’-6”, 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-415 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.

**FIGURE 1**

**FIGURE 2**

**FIGURE 3**

<table>
<thead>
<tr>
<th>Torque Chart - Steel Fasteners</th>
<th>Grade 5 (Lb-Ft)</th>
<th>Grade 8 (Lb-Ft)</th>
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<td>Size</td>
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<td>14-15</td>
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<td>3/4-10</td>
<td>220-230</td>
<td>315-330</td>
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</table>
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. Solid connections between the truck frame and the sub-frame are required at the rear of the sub-frame and at the location where the hoist pins to the sub-frame. The solid connections are accomplished by rigidly mounting the two cross members supplied to the truck frame approximately in the area shown in figure 4. If possible, the cross members should align with the holes in the subframe. However, additional holes can be drilled in the sub-frame as required. The front mount should be located as close as possible to the hoist cylinder mount on the subframe-see Detail A.

1. Set the assembly on top of the frame cross members and position it a minimum of 3.0" from the cab as shown in Figure 4.
2. Position the mounting angles along the sides of the frame in an area where the brackets do not interfere with existing frame bolts or hardware. Bolt the cross members to the subframe and the angles to the frame. Attach the cross members to the angles with bolts supplied—see Figure 5. Additional mounting holes can be drilled in the subframe if required. **Caution:** Be careful of wiring, brake lines, etc. inside frame when drilling. Install 5/8” and 3/4”, grade 8 bolts and nuts supplied at all mounting locations and torque per Torque Chart—Figure 3.

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

**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.**
- Never cut the top or bottom flanges of the sub-frame.

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.

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.
2. 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

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

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.
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<th>Part #</th>
<th>Key Qty</th>
<th>Name</th>
<th>Weight</th>
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<th>Part #</th>
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Optional Cabguards:
- D3-04880 Short Sides/Half Cab
- D3-04920 Tall Sides/Half Cab
- D3-04921 Tall Sides/Quarter Cab

Mount decals approx. in area shown on both sides of deck or dump body.
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.

Deck not shown on this view for clarity.
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.

1. None

2. TC-415 Dump Ass'y - 8'-6"/Drop Sides 834.055 lbm

3. D1-06235

4. Gerry L31

5. 4/21/2011

6. REV.

7. DETAIL C

FRONT TWO HINGES

8. DETAIL D

CENTER & BACK HINGES - (4X)

-- Item Part # Qty Name Weight --

1. D3-06237 1 Drop Side Weld.-R.H./TC-415 82.858 lbm

2. D4-04641 2 Hinge Pin-Locking 0.979 lbm

3. D3-04640 6 Side Hinge Weldment 5.693 lbm

4. D4-04642 4 Hinge Pin 1.822 lbm

5. D3-06238 1 Down Side Weld.-L.H./TC-415 82.858 lbm

6. D3-04609 1 Tailgate Weldment 115.584 lbm

7. P4-00615 40 Hex Head Cap Screw 2.245 lbm

8. P4-00835 2 Hex Head Cap Screw 0.128 lbm

9. P4-00567 46 Nyl. Insert Lock Nut - .38-16 SS 1.099 lbm

10. A4-01300 9 Grommet, 2.5" 0.430 lbm

11. D4-04650 2 Tailgate Pin 8.165 lbm

12. D3-04645 2 Rear Hinge Weldment 6.733 lbm

13. P4-00570 58 Flat Washer - .38 SS 0.386 lbm

14. D4-04649 1 Cross Pin 11.906 lbm

15. D4-04648 3 Pivot Arm 2.293 lbm

16. D4-04644 4 Connecting Link 0.415 lbm

17. D4-04646 2 Locking Bar 5.572 lbm

18. D4-0670 1 Pin, Lever Attach 4.190 lbm

19. D4-04671 1 Tailgate Lever Weldment 4.399 lbm

20. D3-04672 1 Rod, Threaded Ends/TC-415 467.835 lbm

21. D4-04669 1 Link Arm 0.515 lbm

22. D3-04666 1 Clevis, Rod End - Weld. 1.808 lbm

23. P4-04664 1 Clevis w/ Pin-1/2-13 - Z. P. 0.427 lbm

24. P4-00482 6 Hex Flange Nut 0.383 lbm

25. P4-04674 1 Weld Ring w/ 6 Chain Links 0.585 lbm

26. P4-04675 1 Weld Ring w/ 6 Chain Links 0.585 lbm

27. P4-04677 2 Bearing 1.027 lbm

28. A4-00459 7 Light, Clearance 0.050 lbm

29. A4-04460 2 Light, Clearance 0.391 lbm

30. P5-04662 1 Vinyl Foam Grip 0.070 lbm

31. D4-04653 2 Pin, Top Latch 2.363 lbm

32. M4-04639 4 Pipe, PVC - make from R5-02587 0.062 lbm

33. P4-00590 10 Nyl. Insert Lock Nut 0.061 lbm

34. D3-06243 2 TC-415 Shaft Weldment 27.113 lbm

35. D4-04698 4 Latch 1.263 lbm

36. D4-04701 6 Plate, Bearing Mount 1.452 lbm

37. P4-04629 4 Roll Pin - .19 X 2.00 SS 0.040 lbm

38. A4-00548 4 IGLIDE Bearing, 1.00" 0.156 lbm

39. P4-04699 6 Bearing 0.022 lbm

40. P4-04691 2 Knob-1.50 Dia 0.117 lbm

41. P4-00548 4 Pipe, PVC - make from R5-02587 0.062 lbm

42. D3-04868 1 Weldment, Tailgate Pivot - R.H. 1.829 lbm

43. P4-01269 7 Cotter Pin 0.030 lbm

44. P4-04670 1 Pin, Lever Attach 4.190 lbm

45. P5-04860 6 Flat Washer - .25 SS 0.065 lbm

46. P4-04149 2 Pin - #8 Hairpin Cotter 0.029 lbm

47. P5-05608 4 Carriage Bolt - .38-16 X 1.25 SS 0.217 lbm

48. P4-04661 2 Clevis Pin 0.918 lbm

49. P4-00482 6 Hex Flange Nut 0.383 lbm

50. P5-05609 4 Carriage Bolt - .25-16 X 1.25 SS 0.217 lbm

51. P4-04661 2 Clevis Pin 0.918 lbm

52. P4-04660 5 Clevis Pin 0.464 lbm

53. P4-04662 5 Roll Pin - 19 X 25 SS 0.025 lbm

54. P4-04663 5 Roll Pin - 219 X 173 Steel 0.061 lbm

55. P4-04664 2 Cross Pin 0.391 lbm

56. P4-04665 1 Pivot Arm 2.293 lbm

57. P4-04666 3 Pivot Arm 0.415 lbm

58. P4-04667 1 Pivot Arm 0.415 lbm

59. P4-04668 3 Pivot Arm 0.415 lbm

60. P4-04669 1 Link Arm 0.515 lbm

61. P4-04670 1 Link Arm 0.515 lbm

62. P4-04671 1 Link Arm 0.515 lbm

63. P4-04672 2 Roll Pin - .25 X 173 SS 0.030 lbm
Use shims as required to align tailgate and tailgate pivot weldments.

Punch ends of bushing to prevent bearing working its way out of bushing. Typ. 6 plcs.

Detail K

Detail B from Sheet 3

Section J-J

Section A-A

View H-H

- 4/22/2011 -

Sheet: 3

Of

DRAWN BY: DWG. NO.

TITLE:

SCALE:

DATE: MATERIAL:

APPR. BY:

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.

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

1. None

2. TC-415 Dump Ass'y - 8'-6"/Drop Sides

3. 834.055 lbm
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.

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

1.

None

TC-415 Dump Ass’y - 8’-6”/Drop Sides 834.055 lbm

D1-06235

GerryL33

4/21/2011
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