



Dump Body

Safety Manual & Operating Instructions



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Introduction:

Since 1986 Pik Rite equipment has been developed by people who work as hard as you do in the fields, on the farm and on site. Our goal is to deliver products that get the job done with the most efficient results. If you want tough, dependable people and products you can count on, we've got your back.

This manual is provided to all customers of newly manufactured dump bodies to create an awareness of all maintenance expectations and dangers that may be encountered when owning this equipment. This manual should be kept for all future references. Please review these operating instructions carefully, then *sign and date the last page* of this document and return it to Pik Rite Inc. for processing. This will activate your warranty and verify that you have read and understand the following operating instructions and warnings. In the event you have questions or encounter other applications not discussed in this manual, please call before proceeding.

Congratulations and Thank You for choosing a quality dump body manufactured by Pik Rite Inc., we believe you'll be very satisfied with the purchase and we appreciate your patronage.

Offered Dump Body Sizes:

TAILGATE (IN)	CAB PROTECTOR (IN.,FULL OR OFFSET)	OUTSIDE WIDTH (IN)	INSIDE WIDTH (IN)
42, 48, 54, 60, 66	24, 30, 36	96	86.625

	LENGTHS (FT)	10	11	12	13	14	15	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22
SIDES (IN)																				
42	CUBIC YARDS	9.4	10.3	11.2	12.2	13.1	14.0	15.0	15.4	15.9	16.4	16.8	17.3	17.8	18.2	18.7	19.2	19.7	20.1	20.6
48		10.7	11.8	12.8	13.9	15.0	16.0	17.1	17.6	18.2	18.7	19.3	19.8	20.3	20.9	21.4	21.9	22.5	23.0	23.5
54		12.0	13.2	14.4	15.6	16.8	18.0	19.3	19.9	20.5	21.1	21.7	22.3	22.9	23.5	24.1	24.7	25.3	25.9	26.5
60		13.4	14.7	16.0	17.4	18.7	20.1	21.4	22.1	22.7	23.4	24.1	24.7	25.4	26.1	26.7	27.4	28.1	28.7	29.4
66		14.7	16.2	17.6	19.1	20.6	22.1	23.5	24.3	25.0	25.7	26.5	27.2	27.9	28.7	29.4	30.1	30.9	31.6	32.4
72		16.0	17.6	19.3	20.9	22.5	24.1	25.7	26.5	27.3	28.1	28.9	29.7	30.5	31.3	32.1	32.9	33.7	34.5	35.3

Labels:

It is important to pay close attention to points labeled **CAUTION**, **WARNING**, **DANGER** or **NEVER** as well as graphics included below in Figure 1

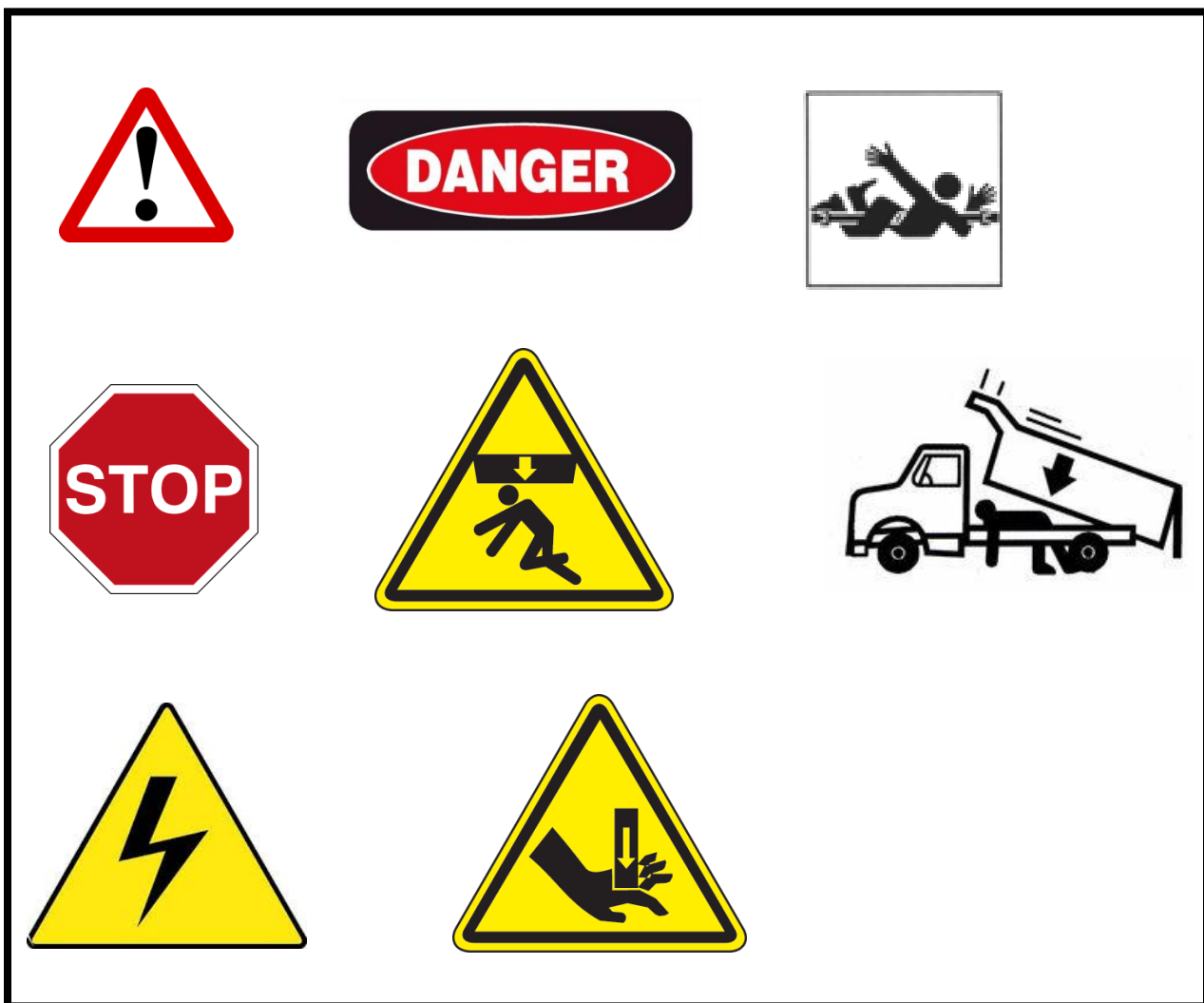


Figure 1

Labels:

Locate the caution labels of the body and fully read and understand them for your safety as well as the safety of others, and for proper operation.

Table 1 lists decal numbers and descriptions shown in Figure 2 & 3

Figures 2 & 3 show the approximate location of the safety decals

Truck Decal Description

DC-4W	White Pik Rite Logo
EL-1226	Amber reflector
DC-9016	Body prop use
DC-9011	Do not step or ride
DC-9014	Assure overhead clearances
EL-1227	Red reflector
DC-3029 (8x)	Red and white reflective tape
DC-9012	Pinch point, keep hands clear
DC-0011	"Made in USA" decal
DC-9009	Stand clear of tailgate

Table 1

* Decals may differ depending on model.

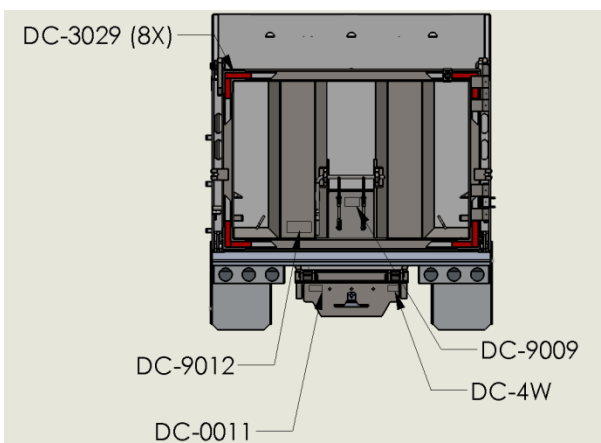


Figure 2

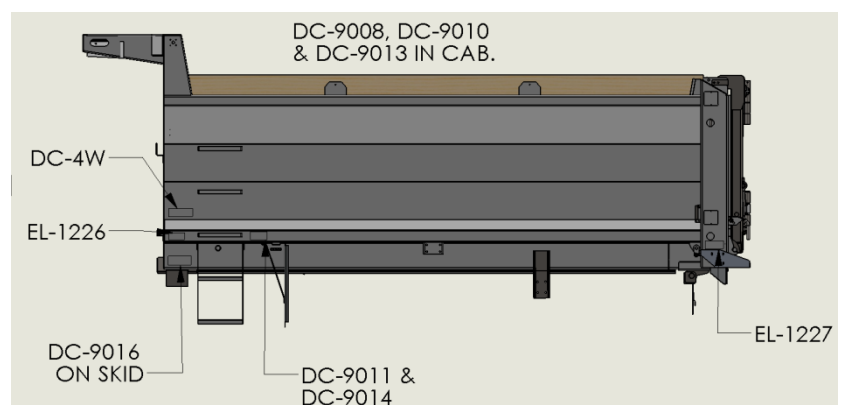


Figure 3

Safety First:

- Any person operating this equipment should read and thoroughly familiarize themselves with the content of this operator's manual
- Any person performing maintenance on this equipment should read and thoroughly familiarize themselves with this operator's manual
- Always perform a pre-trip inspection for faulty equipment or damaged parts including but not limited to – pins, pivot points, latches, engagement handles and pistons
- Bodies can differ in size and shape so it is the responsibility of the driver to know and understand the dimensions of the body



- **WARNING :** Any modifications made to the equipment may result in improper function and cause serious bodily injuries or death
- No modifications or adaptations shall be made to this equipment without manufacturer approval

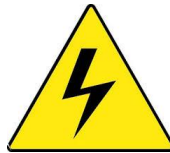


- **Caution:** Always open tailgate before dumping
- Unlock tailgate before dumping and lock tailgate when in motion
- Stay clear from tailgate when body is dumping, the tailgate can open unexpectedly

Safety First:



- **DANGER:** Never work under a lifted body without first engaging the safety stop; Failure to do so may result in serious injury or death
- When the truck is not in use or is unattended the dump body should be lowered to the frame and the key removed from ignition
- Always make sure the body is down on the frame of the truck when traveling
- If air suspension truck is being used, **Always** relieve air from airbags before raising dump body as this can cause the truck to become unbalanced and tip over



- **DANGER:** Always be aware of overhead obstructions and power lines. Power lines pose a danger of electrocution which can cause serious burns, injury or death

- **CAUTION:** Be aware of liquid state material when traveling because of its ability to shift weight of vehicle making traveling hazardous
- Know what kind of material is being hauled. Different materials have different densities and can cause overload to the equipment
- Only load material into the body when the truck is on solid level ground
- When loading, load from front to back of the body and maintain an even distribution of material in the body

Safety First:



- **DANGER:** Rotating power take off (PTO) shafts can snag clothes, skin, hair, hands, etc. and can cause serious injury or death.
- Do not go under the vehicle when the engine is running.
- Do not work on a shaft when the engine is running.
- Do not engage or disengage driven equipment by hand from under the vehicle when the engine is running.

- **WARNING:** During extreme cold weather operation [32°F (0°C) and lower] Power Shift power take-offs (PTOs) can momentarily transmit high torque which can cause output shaft rotation in the disengaged position. The high viscosity of the transmission oil causes this when it is extremely cold. As slippage occurs between the power take-off (PTO) clutch plates the oil will rapidly heat up and the viscous drag will quickly decrease.
- Do not engage the driven equipment until the vehicle is allowed to warm up. Power take-off (PTO) driven equipment should always be left in the disengaged position when not in operation.

Maintenance and Operation:

Lubrication

Proper Lubrication of moving parts and equipment is essential to safe and proper operation as well as life expectancy of the equipment. Each grease port should be greased weekly, but at a minimum of every 2 months or after 150 intervals of use.

Secure the grease gun end to the grease fittings and apply grease until grease expands from between contacting parts.

Common grease points include:

Figure 4, back of the truck, connecting the body and the frame.

Figure 5, between the top of the hoist and the body.

Figure 6, hoist shaft to the truck frame.

Any tailgate hinges.

(Grease points may differ for each model)



Figure 4

Maintenance and Operation:

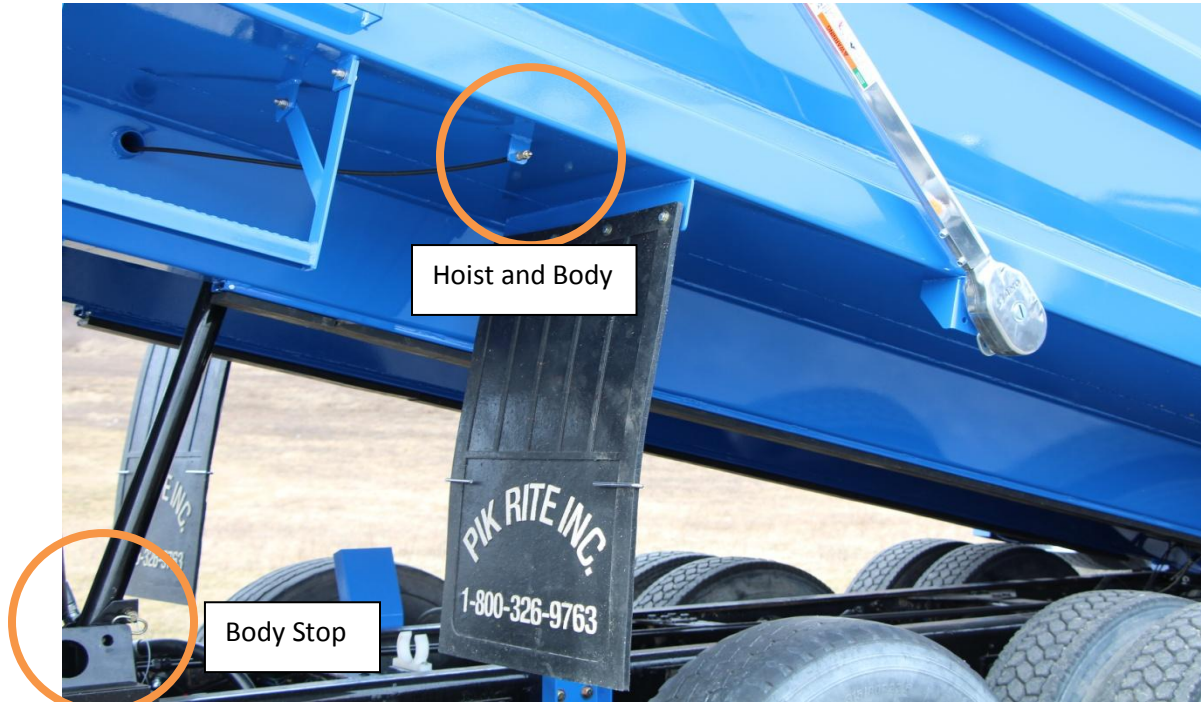


Figure 5



Figure 6

Maintenance and Operation:

Inspection

Inspection of equipment is an important aspect of safety and maintenance because damage or the improper working ability of the equipment can be discovered before any accidents occur, avoiding cost or serious injury to yourself or another person.

Common points of inspection include any tailgate pins, tailgate hinges, pivot points of the body, hoist, hydraulic and pneumatic hoses, lights and back-up alarm.

Note some of the critical inspection points circled in orange in Figures 7, 8 and 9



Figure 7

Maintenance and Operation:



Figure 8



Figure 9

Maintenance and Operation:

Tailgate



Before raising dump body, ensure the tailgate is open and air suspension of the truck has been lowered by releasing the air from the airbags. Material will cause the truck to become unbalanced resulting in an overturned truck which could cause serious injury or death.



Stay clear of the tailgate when opening. Material being unloaded can cause the tailgate to unexpectedly open.

Moving material could produce a crushing force and cause serious injury or death.

Open the tailgate by unscrewing the wing nut latch on either side of the tailgate and disengaging the hook latch located at the bottom of the tailgate. Refer to Figure 10 for the locations of the wing nut latch and the hook latch.

Figure 13 shows an example of the pneumatic control on the front face of the hoist control system which opens and closes the tailgate hook latch.

Close the tailgate by swinging it until the latch is fully secured under the hooks, some force may be required. Close the hook latch with the pneumatic control on the hoist control system, and tighten the wing nut latch to secure the tailgate.


 **Never** drive the truck with the tailgate unlatched.



Figure 10

Maintenance and Operation:

Removing the Tailgate

When removing the tailgate for any reason, secure it at the lifting point at the top center of the tailgate frame as indicated by Figure 11. If the lifting point is removed or none was added on your model, use extreme care when removing the tailgate.

Make sure any equipment used to remove or suspend the tailgate is capable of withstanding the weight of the tailgate. After securing the tailgate, open the bottom hook latches, screw latches, and remove the pins at the top pivot points of the tailgate.



Figure 11

Hoist

In order to raise or lower the hoist, first read and fully understand the operator's manual for the hoist control system.

Hoist control system is located inside the cab on the floor to the right of the seat.

Pulling the handle back will raise the body and pushing forward will lower the body as indicated in Figure 12.

The red light indicates that the body is raised off the frame

Always lower the body after use or when unattended



Always lower the body onto the frame when the truck is in motion

Maintenance and Operation:

- **Hoist continued**

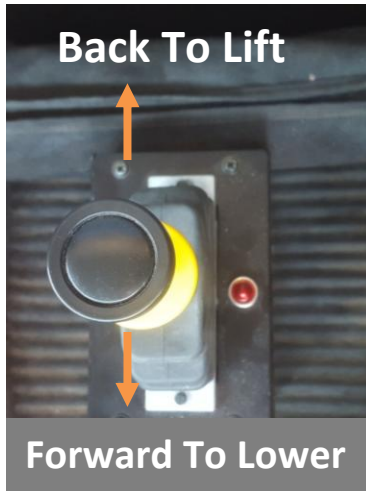


Figure 12

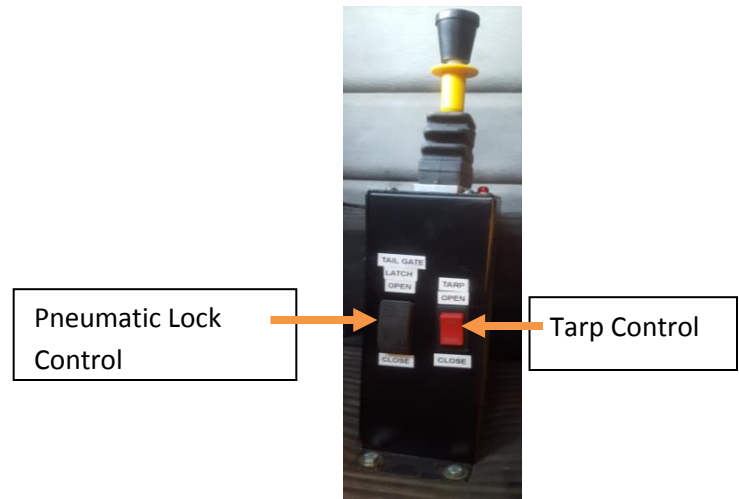


Figure 13

The oil reservoir is located on the driver side, passenger side, or just behind the cab under the body. See Figure 14.

If equipped with an oil level gauge, inspect before every use.



It is important to maintain the oil level within the gauge to ensure significant force can be provided to raise and lower the body and not damage the hydraulic pump.

Read the oil level gauge with the body lowered to its resting point on the truck frame and the truck on a level surface.

Use high quality hydraulic oil. Call your dealer for specs.



Figure 14

Maintenance and Operation:

Body Prop



Never work beneath the raised body without the body prop in place. Failure to do this will result in serious injury or death.

prop in

Engage body prop, in Figure 15, by removing the pin, raising the prop, and reinserting the pin so the pin holds the prop in place. Stand clear as the body is slowly lowered until full contact is made with the stop and the body. Figure 16 shows the proper contact made by the prop and the body. Figure 17 shows the location of the contact point

Inspect for any damage in the body prop and the point at which the prop rests on for any bends or breaks in the structure. Make sure the pivot point of the stop is not damaged.

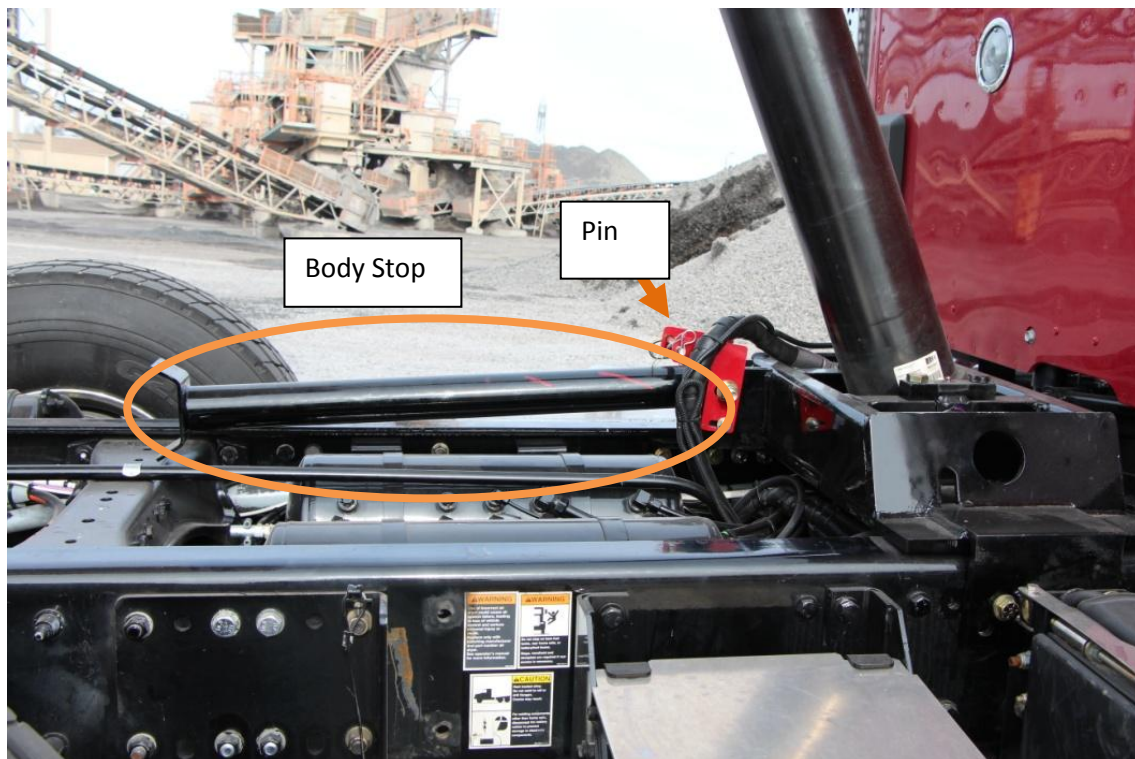


Figure 15

Maintenance and Operation:

- **Body Prop continued**



Figure 16



Figure 17

Options:

Coal Door

The coal door shown in Figure 18, becomes latched using “just over center” force. The all-thread needs to be just past the vertical point towards the cab of the truck.

Adjust by removing the top pin, loosening each jam nut, and then rotating the all-thread either shortening or lengthening it. Some trial and error may be required in order to reach an optimal amount of force on the door.

The coal door has 2 bearings that need maintained and greased every 2 months or 150 intervals of use.

Before use, inspect the door for any damage such as bent handle, bent all-thread, or damaged pivot points that could cause harm to the equipment or to any persons.



Figure 18

Options:**Tarp**

Read and fully understand all directions on tarp use (*see tarp operator's manual*)

Locate, read and understand all warning labels on the tarp arms.

Tarp control switch is located on hoist control system in Figure 13.

Grease the bearing of the tarp housing, located on the passenger side of the body, every 2 months or after 150 intervals of use.

Inspect the tarp for damage such as bent arms or shafts, and rips or tears in the tarp. One sign of damage would be if the tarp is tracking wrong, either to the left or right, or not at all.



Figure 19

Options:

Barn Door

Figure 20 shows the hinges on which the tailgate rotates.

These hinges should be greased every 2 months or every 150 intervals of use.

Convert top swinging tailgate into barn door tailgate

1. Insert the hinge pin in the bottom hinge in Figure 21
2. Remove safety hook bolted on top driver side of the tailgate
3. Open top driver side hook latch with lever located at the bottom driver side of the body
4. Open bottom hook latches on both sides



WARNING: do not leave the tailgate only connected by the top passenger side hinge. The weight of the tailgate could cause failure in the hinge, damaging the equipment or causing serious bodily injury.

Always have the tailgate secured by either top swinging hinges or barn door hinges



Figure 20

Options:

- Barn Door continued



Figure 21

Pneumatic Tailgate Hook Latch

The pneumatic hook latch will open and close the hooks located at the bottom of the tailgate.



Stand clear of the tailgate when opening. The tailgate can unexpectedly open.



Keep hands clear of hook latches when operating.

Pneumatic tailgate controls are located on the hoist control system in Figure 13.

There are 4 grease points located along the rear tailgate hook latch. Two points near both ends of the rod and two near the center of the body.



Figure 22

Options:

Heated Body

Figure 19 shows a body that is equipped for heating

The exhaust outlet is hooked to the body's port, by hose or pipe, and the heat from the exhaust travels through the body exhausting at the rear

Figure 24 illustrates a dump body equipped with automatic heat body components necessary for a trucks diesel particulate regeneration phase where temperatures can exceed 1200°

The dump body temperature control should never be set higher than 600° or risk damage to body

Exhaust temperatures higher than the set mark will switch the diverter box by way of pneumatic cylinder and flow out of the exhaust stack



Figure 23



Figure 24

Options:

Pneumatic High Lift Tailgate



Stand Clear of Tailgate when opening in case of pneumatic failure



Pneumatic tailgate controls are located on the hoist control system in Figure 13.

Never stand under an open tailgate. Failure of tailgate could cause serious injury or even death

Pneumatic tailgate hinge must be opened before high lift is able to be operated

High lift tailgate will not operate without tailgate latches open

Be sure to undo tailgate turnbuckles before opening

High lift cylinder pin points are located behind the bolt-on panels

To remove high lift cylinders, unpin the cylinders from the gate then secure the gate in the open position removing the cylinder through the opening in the top post



WARRANTY
COMMERCIAL DUMP
BODIES
STEEL, ALUMINUM, & STAINLESS
STEEL

Pik Rite, Inc. warrants its equipment to be free from defects in material and workmanship for a period of one (1) year from the date of original purchase. Pik Rite, Inc. will repair or replace, at its option and without charge, parts or labor of any defective or malfunctioning part of the equipment for this allotted time.

Defective or failed material is to be held at the buyer's premises until authorization has been granted by seller to return or dispose of merchandise. Merchandise that is to be returned for final inspection must be returned Freight Prepaid in the most economical way. Credit will be issued for material found to be defective upon inspection based on prices at time of repair.

Conditions Not Covered

1. Pik Rite, Inc. will not be responsible for misused, neglected or improperly maintained bodies. Proper operation and maintenance must be performed according to Pik Rite, Inc. and Vendor Operator's Manuals.
2. Bodies subjected to commercial acids and corrosive materials.
3. Pik Rite Inc. will not be responsible for damages either direct or indirect (such as loss of anticipated revenue).
4. Parts and accessories not manufactured by Pik Rite, Inc., which carry the warranty of the manufacturer thereof.
5. Pik Rite Inc. will not be responsible for customer specified alterations to Pik Rite's standard bodies.



Warranty

Operator's Manual/Warranty Receipt Verification

Model _____

Serial Number (SN) **PRD** _____

Customer Name (Please Print) _____

I have received a copy of the Operator's Manual for the above described equipment. I understand that this manual sets out important instructions and warnings regarding the proper and safe operation and maintenance of the equipment.

I have also received a copy of the warranty and understand the warranty policy as is described on the contract.

I agree that all safety shields are in place for safe operation.

I have full knowledge how to operate this equipment safely or will receive proper training before operating this equipment.

Customer Signature _____ Date _____



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