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1-800-533-0494 Crysteel



ELIMINATOR LP

Operation Manual

To Be Filled In By Installer

Body Serial #: _____

In Service Date: _____

Dealer: _____

Address: _____

City, State, ZIP: _____

Dealer Phone Number: _____

This manual outlines the operation of an "Eliminator LP" series dump body with the E-Z Rear Tailgate Latch manufactured by Rugby Manufacturing Co. This manual should be kept in the truck glove compartment for reference.

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Warnings

WARNING: Installing or operating this hoist without first understanding the proper installation and operation procedures can lead to serious injury or death. **Always** read and understand fully all installation and operation manuals before installing or operating this equipment.

WARNING: Welding, oxy-fuel cutting, or grinding sparks can cause fuel to ignite which in turn can lead to injury or death. **Always** take adequate steps to avoid ignition of fuel from fuel tanks when welding, grinding, or oxy-fuel cutting during equipment installation.

WARNING: Heat from the truck's exhaust system can cause hydraulic component failure and may lead to a fire which could cause injury or death. **Always** install equipment in locations where heat from the exhaust system will not damage any hydraulic component.

WARNING: Being under a raised body can result in serious injury or death should the body inadvertently descend. **Never** position yourself or allow others to position themselves under a **loaded** body. **Always** prop the **unloaded** body up using the body prop or body props supplied. **Remember** body props are to be used only on an **unloaded** body.

WARNING: Malfunctioning equipment can cause property damage, injury or death. **Always** have faulty equipment repaired before continuing its use. If required, consult the manufacturer.

WARNING: Overloading of a truck can cause truck component damage or an accident which may cause injury or death. **Never** exceed the gross vehicle weight (GVW) or the gross axle weight (GAW) rating of your vehicle or trailer.

WARNING: The inadvertent shorting of the truck's electrical supply can cause a fire or equipment damage that could lead to injury or death. **Always** disconnect the vehicle battery prior to installing, servicing or repairing the pump.

WARNING: Connecting the hoist to a hydraulic system with more pressure (psi) or flow (gpm) than is recommended by the hoist manufacturer can cause the hoist to fail during the dumping of a load. This could lead to damage, serious injury, or death. **Be sure** you have the correct pressure and flow. Consult the manufacturer if you do not know the recommended pressure and flow.

WARNING: Adjusting the hydraulic pressure to more than the recommended setting may cause the hoist to fail during the dumping of a load. This could cause damage,

serious injury, or death. **Never** adjust the pressure on your own. Consult the manufacturer if the hydraulic pressure is in question. Have only a qualified person set the hydraulic pressure. **Never** adjust the pressure to more than the recommended amount.

WARNING: Fluid under pressure can pierce the skin and enter bloodstream, causing serious injury or death. **Always** wear eye protection and protective clothing when working around hydraulic systems.

WARNING: Damage to brake lines during equipment installation, or installing bolts or equipment in such a way that the line will rub and become damaged can lead to brake failure which can cause an accident and can lead to severe injury or death. **Always** take adequate steps to prevent brake line damage during installation and isolate brake lines from installed equipment.

WARNING: Never install a cable on a truck while the body is raised without first blocking, bracing, or propping the body up to prevent the body from inadvertently falling when the control valve lever is moved. A falling body will result in serious injury or death if the control valve lever is moved while someone is under the non-supported body.

WARNING: Do not raise or drive a raised body against a power line. Bring body in contact with a power line or power source will result in serious injury or death by electrocution.

WARNING: Do not raise or drive a raised body against another object. Doing so could result in equipment damage or property damage, bodily injury or death.

WARNING: Do not dump while on uneven ground or if vehicle is in an uneven position from side to side. Dumping unevenly can cause vehicle to overturn and cause equipment or property damage, personal injury, or death.

WARNING: Stay clear of dump body when dumping. Moving vehicle parts or the moving load could cause injury or death.

WARNING: Check load making sure that rocks or any other object will not spill out of vehicle while transporting load. Falling objects can cause equipment damage or property damage, bodily injury or death.

WARNING: Make sure all doors are closed and latched before moving vehicle. Swinging doors or falling objects can cause equipment or property damage, bodily injury or death.

Operation

IMPORTANT: There are two ways to open the tailgate on your dump body.

One way is to unlatch the bottom of the tailgate, allowing the tailgate to pivot at the tailgate top (see Figure 1). For the purposes of this manual, opening the tailgate in this manner will be referred to as *opening the tailgate bottom up*.

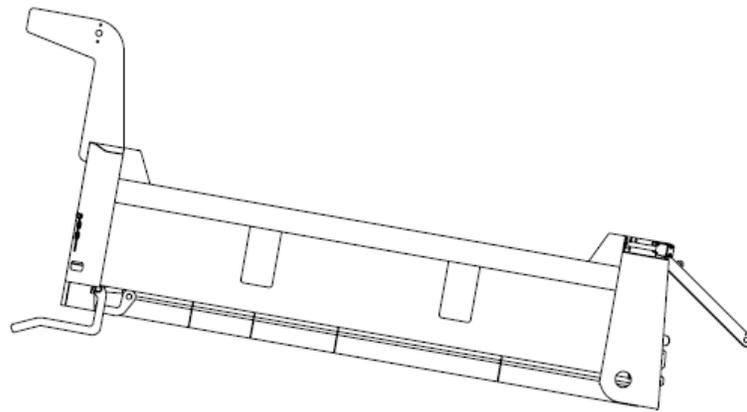


FIGURE 1
OPENING THE TAILGATE BOTTOM UP

The tailgate is opened bottom up by using the bottom latch handle located at the front driver side of the dump body. (Figure 2)

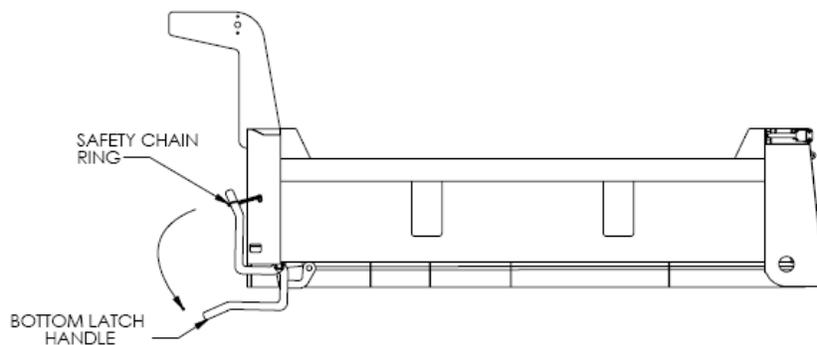


FIGURE 2
OPENING THE TAILGATE BOTTOM UP

OPENING AND CLOSING THE TAILGATE BOTTOM UP:

1. Begin by removing the safety chain ring from the bottom latch handle.
2. Rotate the bottom latch handle down to release the tailgate bottom as shown in Figure 2.

WARNING: Standing next to the rear of the dump body when tailgate is opened bottom up can cause the tailgate to strike you, which may cause serious injury. Stay clear of dump body while dumping.

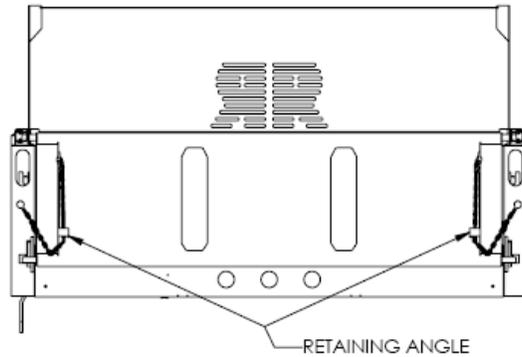


FIGURE 3
LIMITING BOTTOM UP OPENING OF TAILGATE WITH CHAIN

NOTE: The amount the tailgate will open bottom up can be limited by using the tailgate chains. In limiting the amount the tailgate opens bottom up, a chain on each side of the tailgate is run first through its respective tailgate retaining angle and then to its respective chain slot located on the rear corner post as shown in Figure 3.

3. To close the tailgate, first lower the dump body.

NOTE: To raise and lower the dump body, refer to the operation instructions for your particular hoist model.

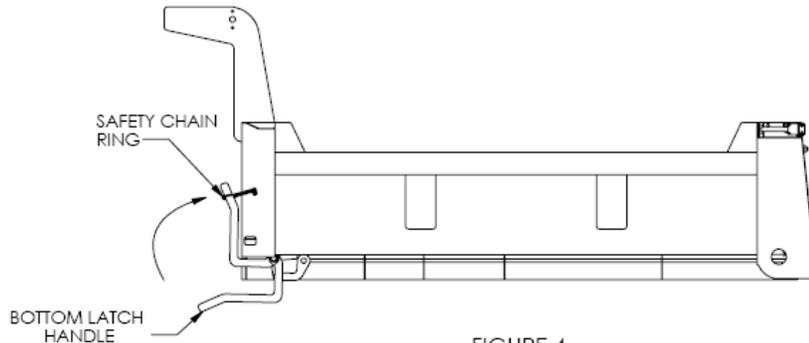


FIGURE 4
OPENING THE TAILGATE BOTTOM UP

4. Rotate the bottom latch handle up to latch tailgate bottom as shown in Figure 4.

5. Secure handle by repositioning chain removed in Step 1.

The second way the tailgate can be opened is to unlatch the top of the tailgate, allowing the tailgate to pivot at the tailgate bottom (see Figure 5). Again, for the

purposes of this manual, opening the tailgate in this manner will be referred to as *opening the tailgate top down*.

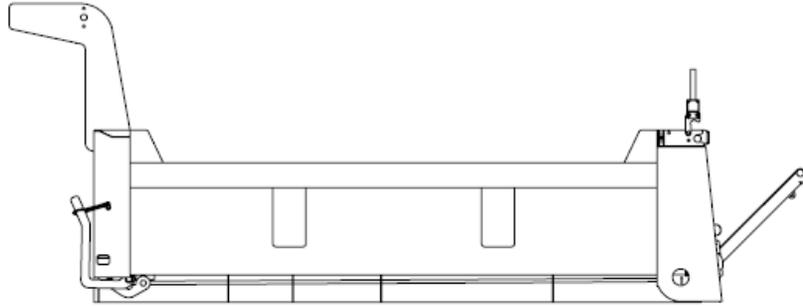


FIGURE 5
OPENING THE TAILGATE TOP DOWN

The tailgate is opened top down by using the left and right side top latch handles located at the rear of the body (Figure 6).

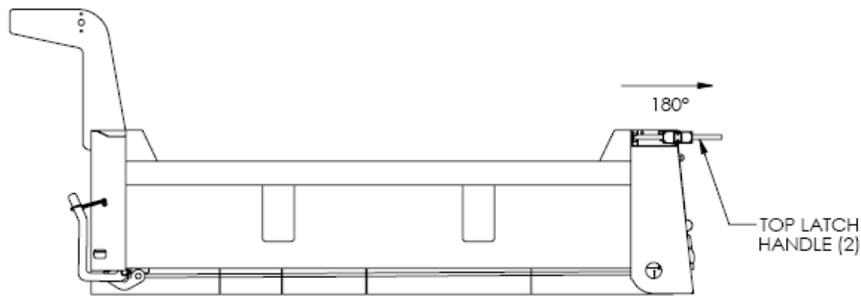


FIGURE 6
ROTATE TOP LATCH HANDLE REARWARD

OPENING AND CLOSING THE TAILGATE TOP DOWN:

1. Open the top latch on one side of the dump body:
 - a. Rotate the top latch handle rearward until the handle points straight back as shown in Figure 6.

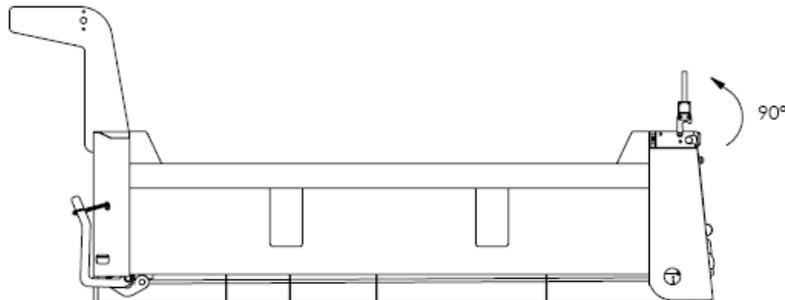


FIGURE 7
ROTATE TOP LATCH HANDLE UP

- b. Rotate the handle upward and open as shown in Figure 7.
2. Repeat Step 1a & 2b for the remaining top tailgate latch located on the other side of the dump body while keeping tailgate secure in the closed position.
3. Rotate the top of the tailgate down. The tailgate will rotate 180° from the closed position.

CAUTION: Raising the dump body to dump a load with the tailgate opened top down can cause damage to the tailgate or the truck if the tailgate strikes a trailer hitch or some other object below the tailgate while dumping.

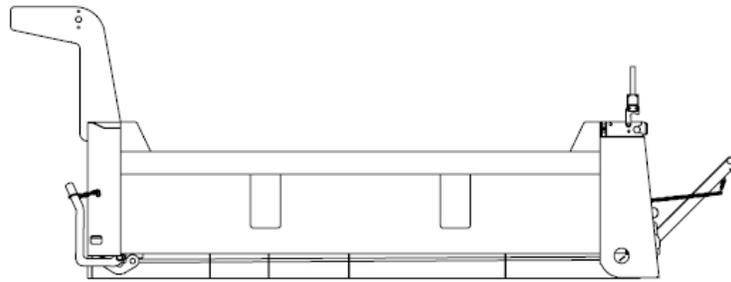


FIGURE 8
LIMITING TOP DOWN OPENING OF TAILGATE WITH CHAIN

4. The amount the tailgate will open top down can be limited by using the tailgate chains. In limiting the amount the tailgate opens top down, a chain on each side of the tailgate is run directly to its respective chain slot located on the rear corner posts as shown in Figure 8.

WARNING: Failure to latch the tailgate bottom while using or opening the tailgate from the top down will result in the tailgate falling which could result in serious injury. Latch the tailgate bottom before using or opening the tailgate from the top down.

WARNING: Failure to support the tailgate top while opening the tailgate from the top down will result in the tailgate rotating open uncontrollably and could result in serious injury. Support the tailgate at the very top while opening the tailgate from the top down.

WARNING: Failure to keep extremities away from chains and other pinch points while opening the tailgate from the top down could result in serious injury. When opening the tailgate from the top down, hold the tailgate only at the very top away from chains and other pinch points.

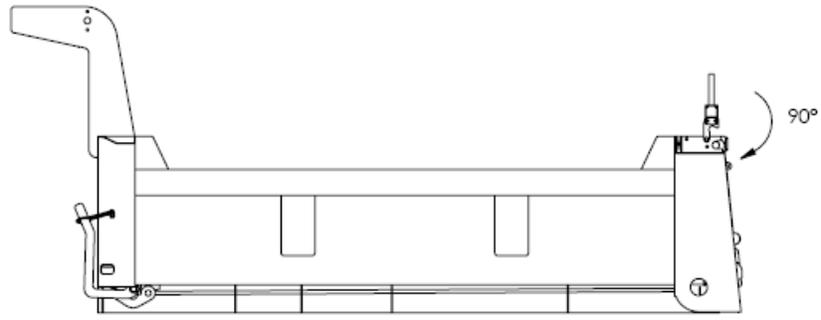


FIGURE 9
ROTATE TOP LATCH HANDLE DOWN

5. To close the tailgate, rotate the top of the tailgate up.
6. Close the top latch on one side of the dump body:
 - a. Rotate the top latch handle down as shown in Figure 9.

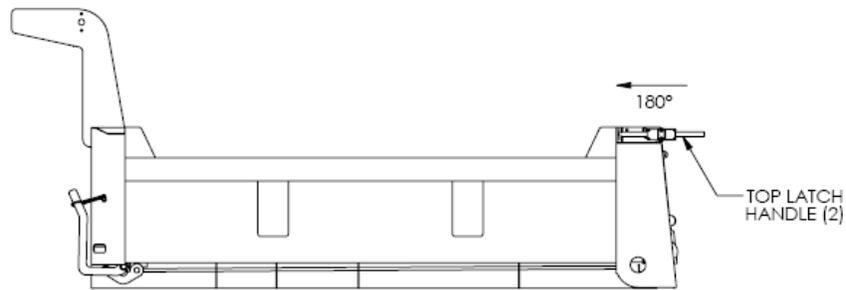


FIGURE 10
ROTATE TOP LATCH HANDLE FORWARD

- b. Rotate the top latch handle forward until the handle points straight towards the front of the body as shown in Figure 10.

Fold Down Side Door Operation:

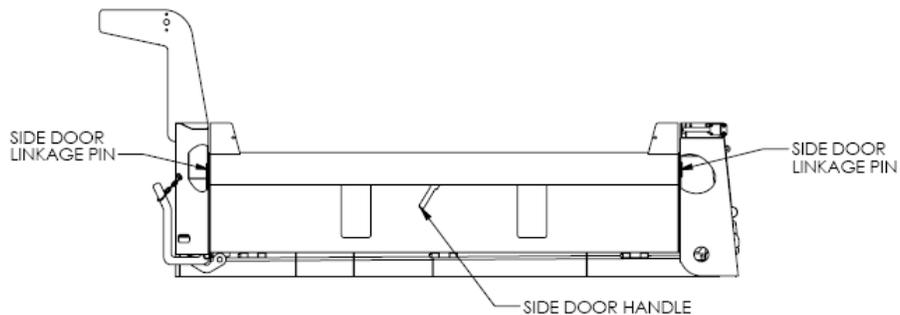


FIGURE 11
SIDE DOOR PARTS

Fold down side doors are opened and closed using the centrally located quick release side door handle on either side of the dump body (Figure 11).

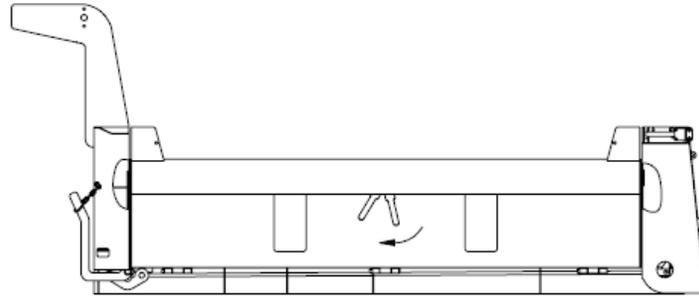


FIGURE 12
ROTATE SIDE DOOR HANDLE TO RETRACT LINKAGE PINS

OPENING AND CLOSING THE SIDE DOORS (*Fold down side option only*):

1. Rotate side door handle forward to retract linkage pins from front and rear corner posts while keeping the side door secure in the closed position (Figure 12).

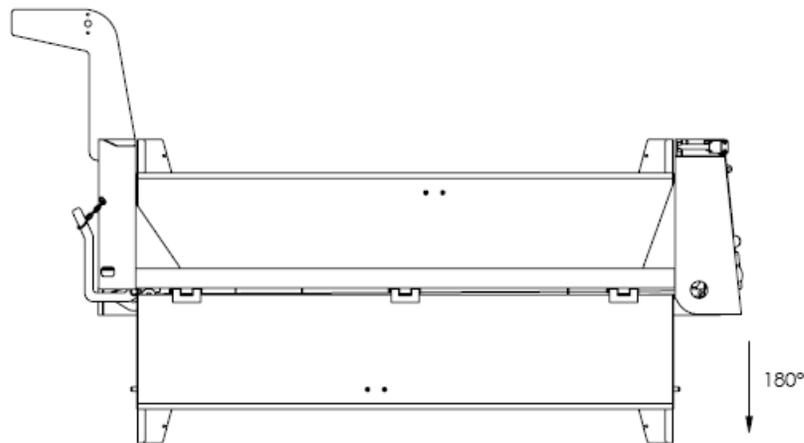


FIGURE 13
SIDE DOOR ROTATED DOWN

2. Rotate the top of the side door down as shown in Figure 13 and release the side door handle. The side door will rotate 180° from the closed position.

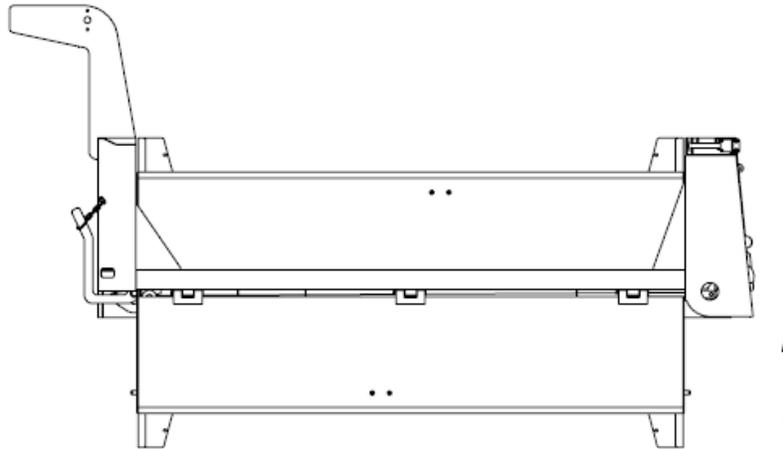


FIGURE 14
ROTATE SIDE DOOR UP

3. To close the side door, rotate the top of the side door up towards the closed position.

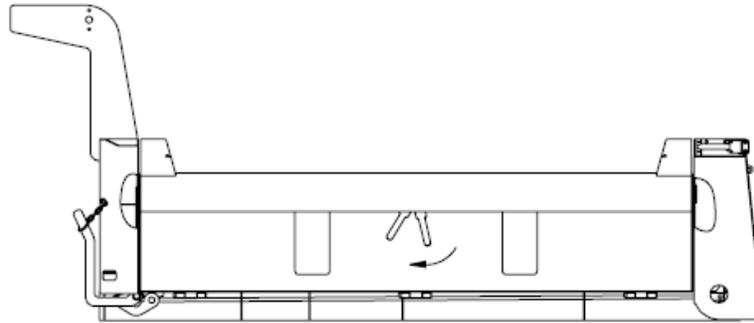


FIGURE 15
ROTATE SIDE DOOR HANDLE TO RETRACT LINKAGE PINS

4. Rotate the side door handle forward to retract linkage pins as shown in Figure 15.

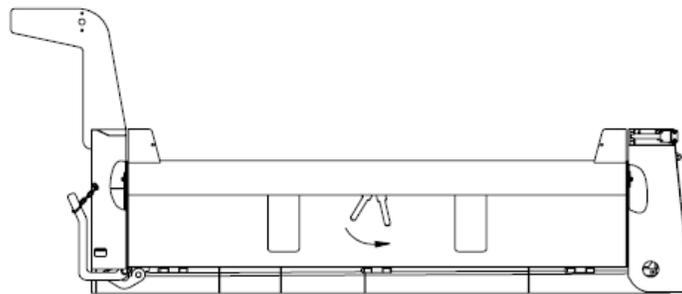


FIGURE 16
ROTATE SIDE DOOR HANDLE TO EXTEND LINKAGE PINS

5. Close the side door and rotate side door handle rearward to extend linkage pins into the front and rear corner posts.

Decal Location

SAFETY DECALS:

One 1654038 (00 9125) warning decal is supplied with each dump body. This decal must be positioned as shown in Figure 17.

Two 1654043 (00 9130) warning decals are supplied with each dump body. These decals must be positioned as shown in Figure 17 or Figure 18.

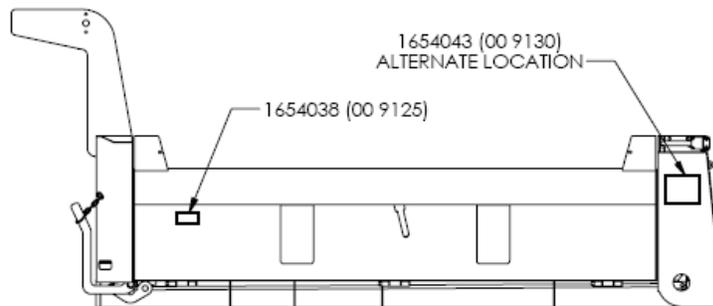


FIGURE 17
DECAL LOCATION

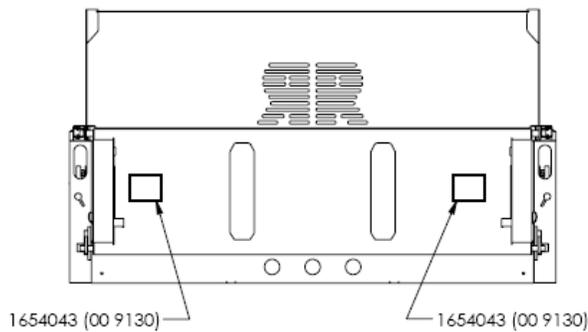


FIGURE 18
DECAL LOCATION

NOTE: Locate the two 1654043(009130) decals on the tailgate as shown in Figure 18 or use the alternate location shown in Figure 17 (locating one decal on the side of each corner post).

WARNING: Missing or damaged decals can lead to accidents which may cause serious injury or death. If any decals are missing or damaged, they must be replaced.

To obtain replacement decals, contact your local Rugby dealer or contact:

Rugby Manufacturing Co.
Industrial Park
515 1st Street NE
Rugby, ND 58368



⚠ WARNING ⚠

Failure to support the tailgate top while opening the tailgate from the top down will result in the tailgate rotating open uncontrollably and could result in serious injury. Support the tailgate at the very top while opening the tailgate from the top down.

Failure to keep extremities away from chains and other pinch points while opening the tailgate from the top down could result in serious injury. When opening the tailgate from the top down hold the tailgate only at the very top away from chains and other pinch points.

Failure to latch the tailgate bottom while using or opening the tailgate from the top down will result in the tailgate falling which could result in serious injury. Latch the tailgate bottom before using or opening the tailgate from the top down.

Rugby[®]
MANUFACTURING CO.

1654043 (009130)

Maintenance

Refer to Figure 19 for grease fitting locations. All grease fittings should be greased every 30 days or 200 hrs.

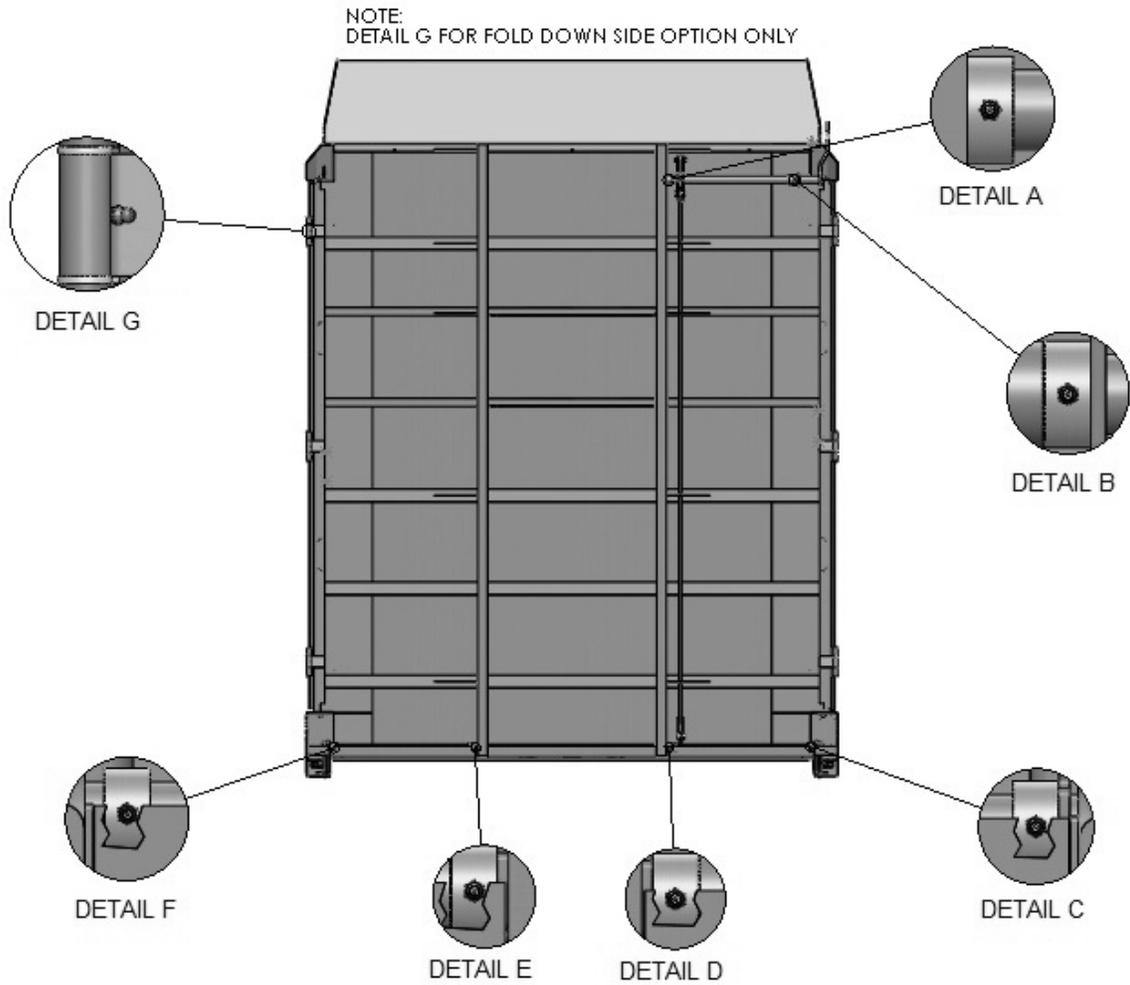


FIGURE 19

Hoist Application Reference Guide

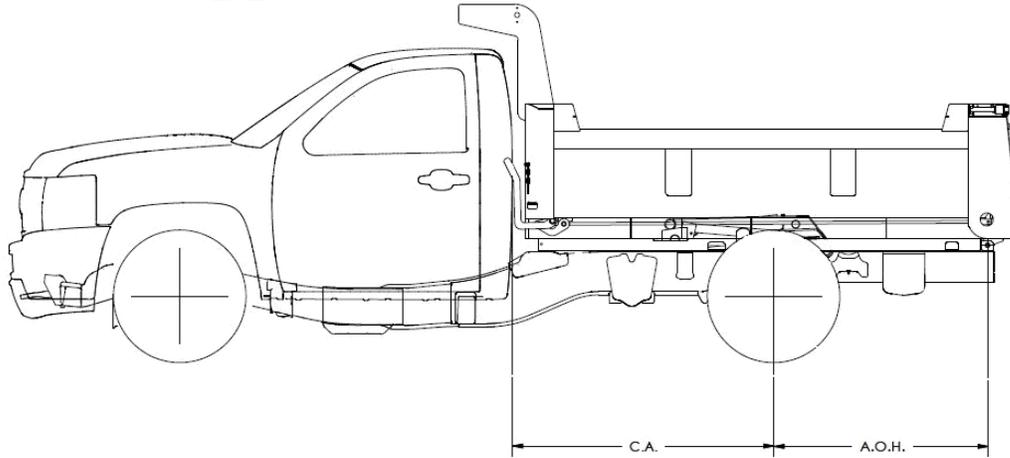


FIGURE 20

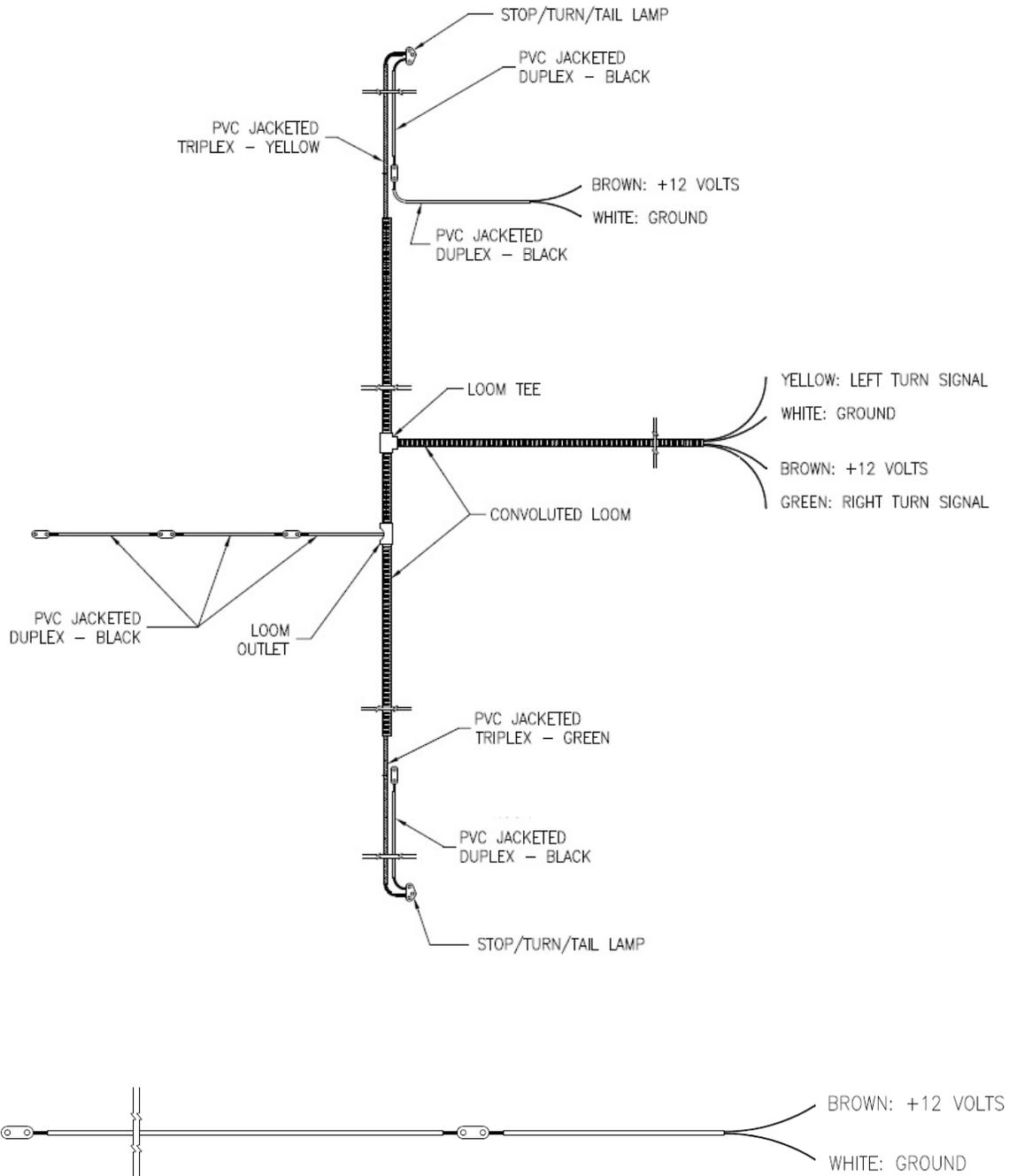
HOIST APPLICATION ELIMINATOR LP

HR-520 LP APPLICATION CHART		
BODY LENGTH (B)	CAB/AXLE (CA) in.	CAPACITY 50° DUMP (STANDARD) tons
8'3"	60	9.3
9'3"	60	10.8
10'3"	84	7.3
11'3"	84	8.2
12'3"	108	<i>Not recommended</i>

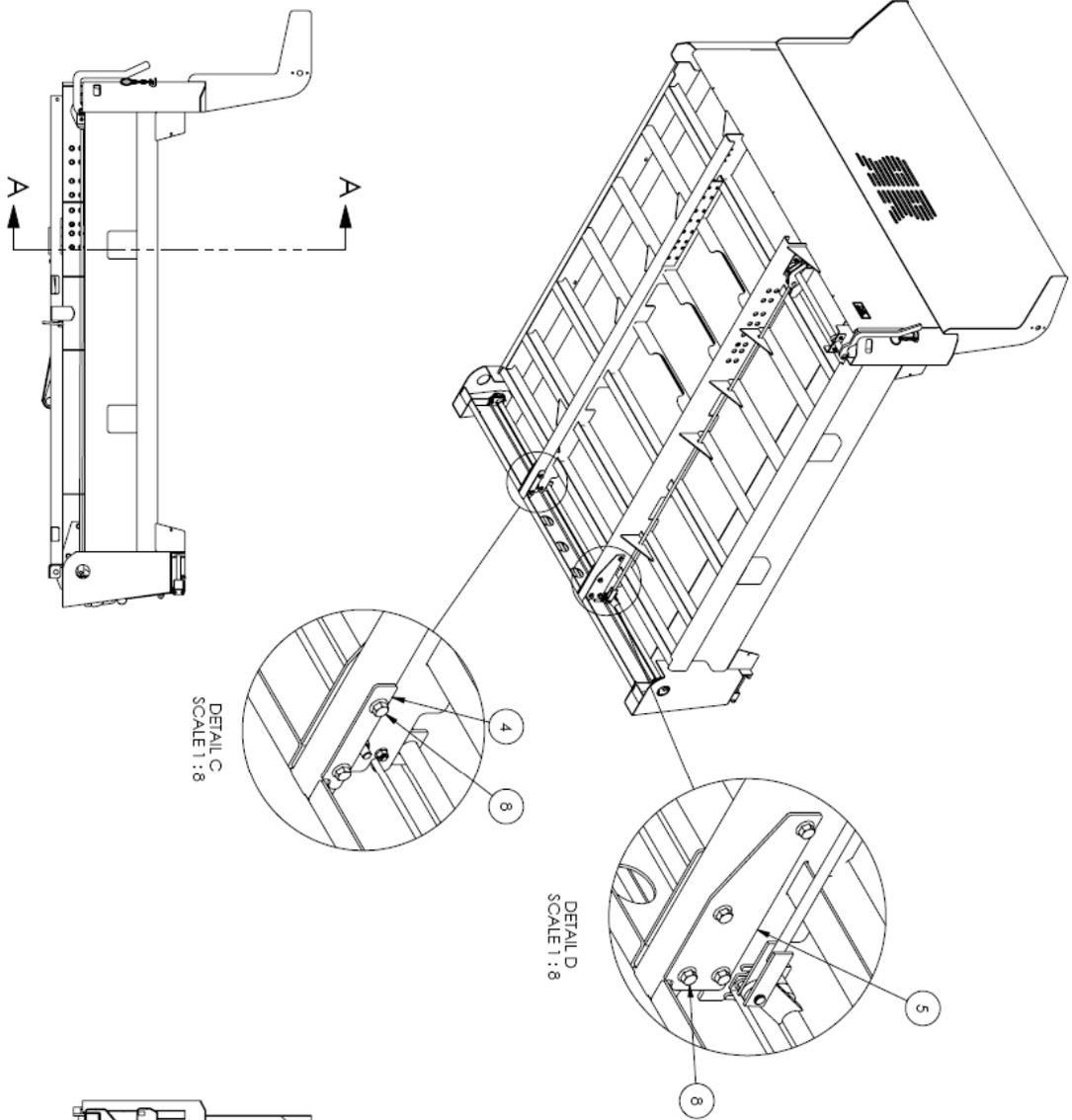
HR-540 LP APPLICATION CHART		
BODY LENGTH (B)	CAB/AXLE (CA) in.	CAPACITY 50° DUMP (STANDARD) tons
9'3"	60	13.5
10'3"	84	9.2
11'3"	84	10.3
12'3"	108	7.6

AXLE OVERHANG	
A.O.H. in.	APPLICATION
34	STANDARD
47.6	FORD
51"/52	GM/DODGE

Wire Diagrams



Installation



DETAIL C
SCALE 1 : 8

DETAIL D
SCALE 1 : 8

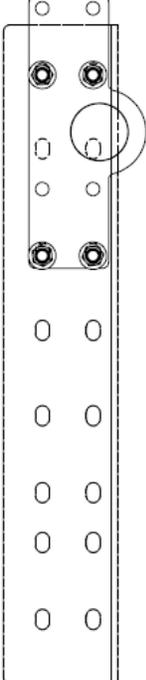
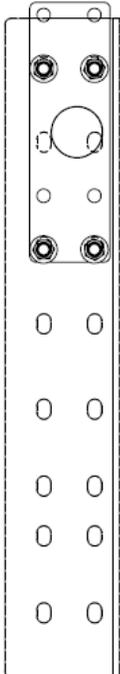
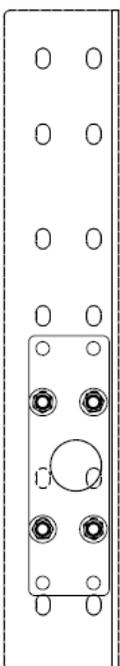
DETAIL B
SCALE 1 : 4

SECTION A-A
SCALE 1 : 32

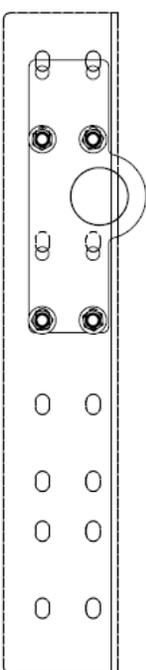
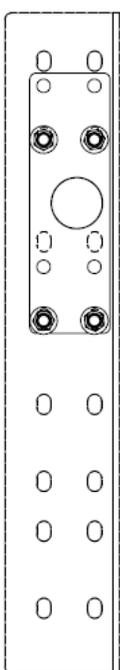
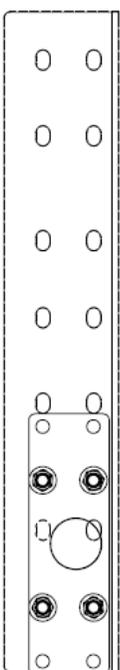
ITEM	DESCRIPTION	QTY
1	ALUMINUM LP DUMP BODY	1
2	QUICK INSTALL HOIST	1
3	LIFT SHAF 5A, BOLT-ON	2
4	BODY MOUNT PLATE INNER REAR	2
5	BODY MOUNT PLATE OUTER REAR	2
6	LOCK COLLAR	2
7	SET SCREW	2
8	FLANGE BOLT 1/2-13 X 1-1/2 GR5	20
9	NUT 1/2-13 FLANGE GR5 STL PLT	20

ALUMINUM LP INSTALL

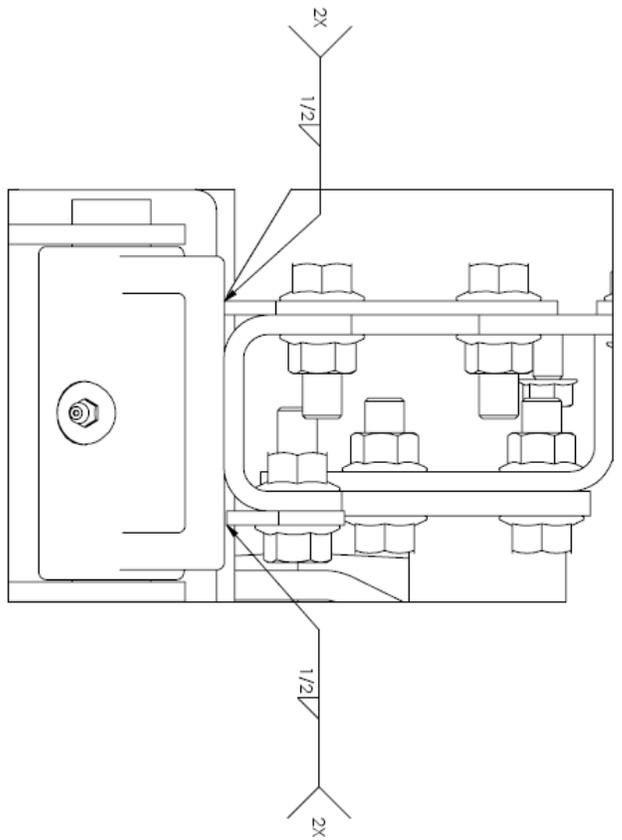
STANDARD MOUNT



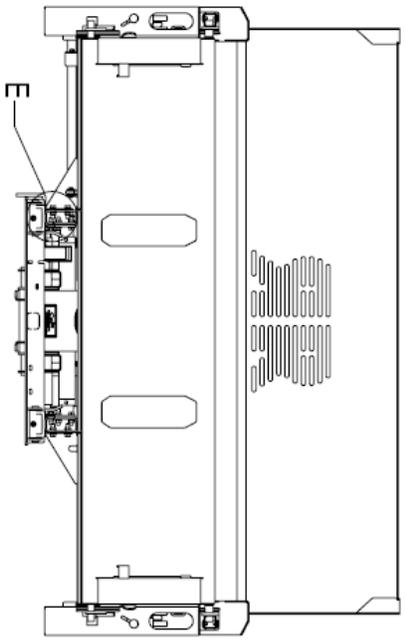
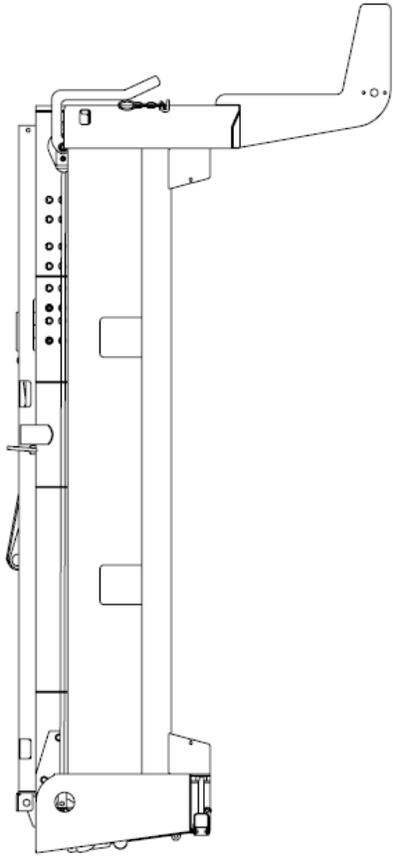
3" REARWARD MOUNT



ALUMINUM LP INSTALL (cont.)



DETAIL E
SCALE 1 : 2



REAR LIGHT APRON HIDDEN FOR CLARITY.

ALUMINUM LP INSTALL (cont.)