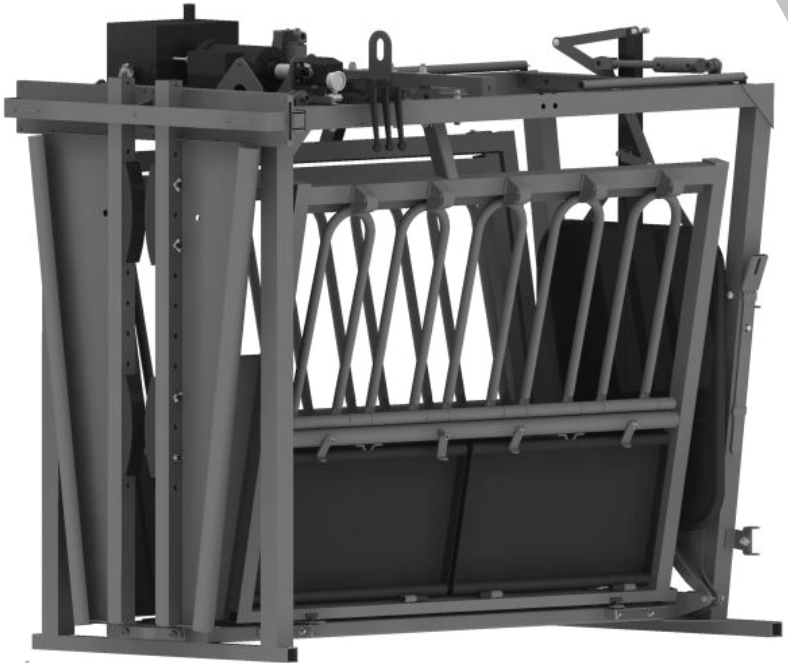


POWDER RIVER[®]

• LIVESTOCK HANDLING EQUIPMENT •

002-55000 H2000 Hydraulic Chute

Owner's Manual



Powder River Inc.
PROVO, UTAH
www.powderriver.com
800-453-5318

400-10115
10/2014

Safety Symbols



DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

DANGER



WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

WARNING



CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

CAUTION

NOTICE

NOTICE is used to address practices not related to physical injury.

SAFETY INSTRUCTIONS

Safety instruction (or equivalent) signs indicate specific safety related instructions or procedures.

POWDER RIVER

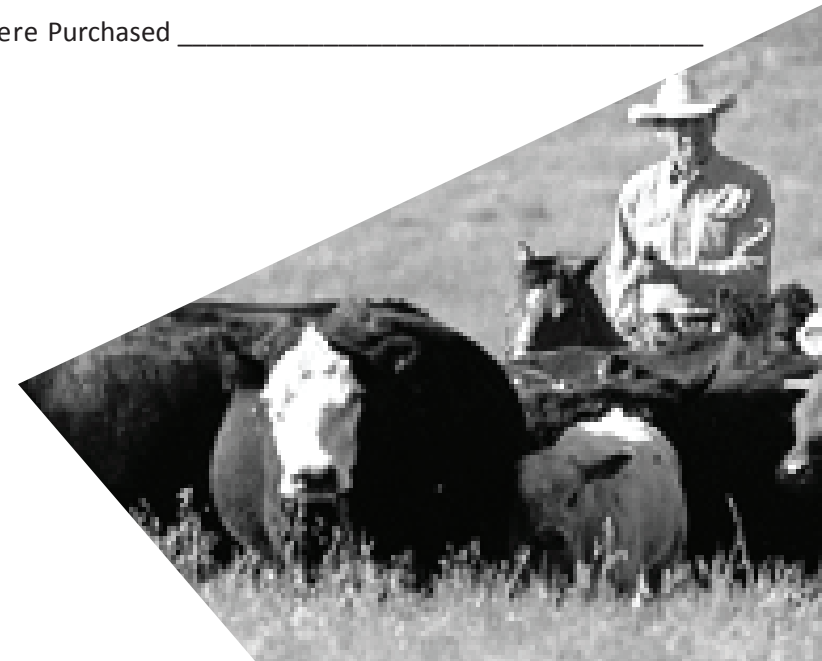
Powder River is the leading manufacturer of quality, ranching equipment. Since 1938, Powder River has been partnering with North American ranchers. Powder River's trademark green is recognizable all across the country in quality panels, gates, squeeze chutes, cattle guards and much, much more.

POWDER RIVER 002-55000 H2000 Hydraulic Chute

Serial # _____

Date Purchased _____

Store Where Purchased _____



SAFETY STATEMENT

WARNING



Handling livestock can be unpredictable and/or dangerous. Using equipment properly may limit the risk of injury; however, be aware of the limitations of equipment. Cattle equipment may provide a safer, more efficient working environment, however, even the best equipment is no replacement for smart and safe livestock handling.

NOTICE

The H2000 Auto Chute is NOT designed for feedlots or other high volume lots.

Initial Setup

The H2000 Chute is packaged for shipping, a few tasks will need to be performed to ready the chute for handling cattle.

Setup Overview

1. Familiarize yourself with the chute and hydraulic controls.
2. Use a $\frac{3}{4}$ " wrench to loosen the kickpan tab bolts located at the bottom of both sides of the chute [8 total bolts]. Loosen the bolts until the kickpan tabs slide into position and can be maneuvered freely (bolt thread should still be showing through the nylon nut).
3. Use a $\frac{3}{4}$ " wrench to loosen the side exit, safety tab. Loosen tab until it can be maneuvered freely.
4. Remove banding, ties and the forklift pockets from the drop fingers.



CAUTION

Side-exit, safety tab should be in latched position when not exiting animals through the side exit. Stand clear when the using side exit.

NOTICE

Side exit safety tab will need to be in open position to release animals from side exit.

NOTICE

Additional products may have been banded to the chute for shipping; all banding and products should be removed prior to use.

NOTICE

All bolts are tightened for shipping, some bolts will need to be loosened to properly operate the chute.

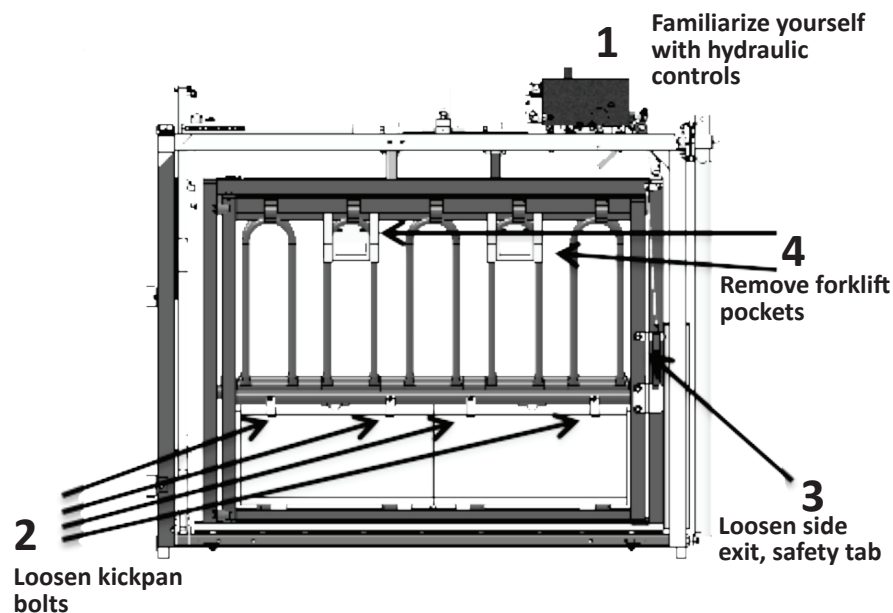


CAUTION

Side exit safety tab should be in latched position when using the side exit to release animals and/or when working from the side of the chute.

NOTICE

Side exit safety tab will need to be in open position to release animals from side exit.



WARNING

Disconnect power before servicing.



WARNING

Release system pressure before servicing.

NOTICE

Do not over tighten fittings and bolts.

NOTICE

Do not force coupling onto pump shaft.

NOTICE

Provide cooling for hydraulic oil as needed.

NOTICE

Do not use thread seal tape on hydraulic fittings.

NOTICE

Never run pump without hydraulic oil.

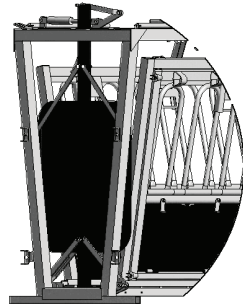
NOTICE

Do not exceed pressure ratings of pump.

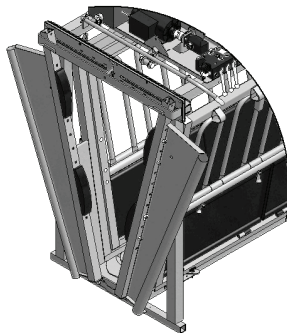
Instructions for Use

Pre-Operation Checklist

- Begin with the tailgate closed.



- Adjust the width of the chute floor to the size of the animal (see Floor Adjustment), use a narrower setting for smaller animals and a wider setting for larger animals.
- Open the center squeeze to its widest position.
- Adjust headgate to desired width.



NOTICE Make sure chute is on level ground.

NOTICE Minimize or eliminate all gaps between the lead-up alley and the chute.

NOTICE In low temperatures, warm up the hydraulic system by running the pump continuously before operation.

Floor Adjustment

1. Remove retention pin, when you have achieved the desired width, replace the retention pin.



2. Rotate floor adjustment plate utilizing the floor adjustment lever. The adjustment lever is fastened to the side of the chute with a nylon thumb screw.

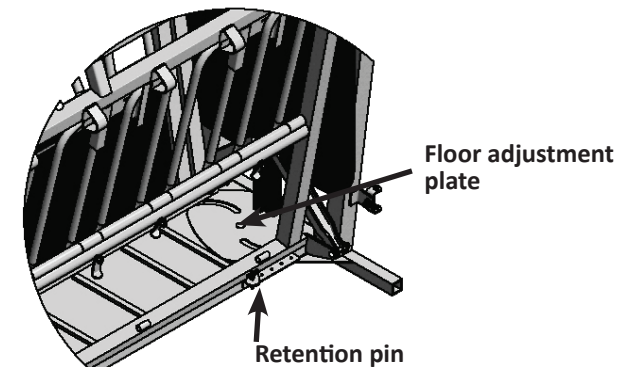


NOTICE When transporting the chute, replace the adjustment lever on the side of the chute with the nylon thumb screw.

NOTICE The chute floor is easier to adjust when the sides are in the vertical position.

NOTICE Over time the plate may become difficult to move by hand; it may become necessary to use the floor adjustment lever.

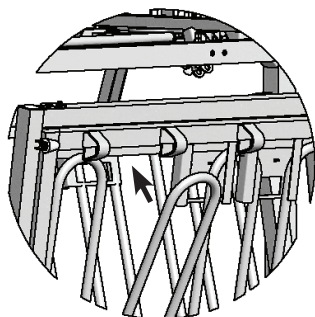
NOTICE The front or back width of the floor can be set independent of each other.



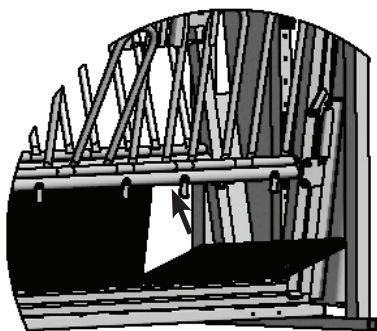
Operation

1. Open the tailgate to allow animal to enter chute.
2. Catch the head of the animal in the headgate.
3. Close tailgate.
4. Apply the center squeeze.
5. To release, open center squeeze then headgate. Alternately utilize the size exit.

NOTICE The drop fingers on the chute are utilized by pushing up the slam latch and dropping the tube.



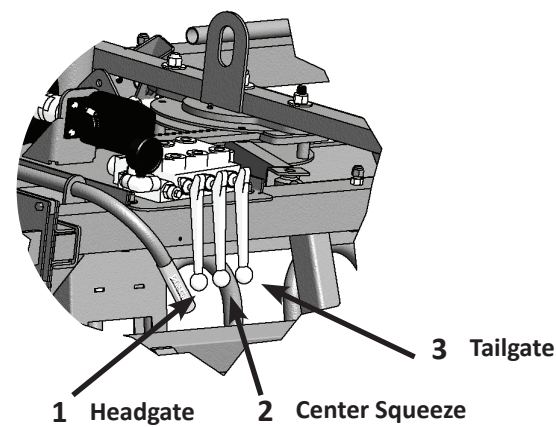
NOTICE The kick pans can be accessed by moving both tabs to a horizontal position and pulling out on the pan.



NOTICE Kick pans can be completely removed if desired by sliding the pan to the side (keep hinges lubricated).

Hydraulic Controls

The Powder River H2000 hydraulic system comes ready to use. The hydraulic system consists of three levers that are located on top of the chute.

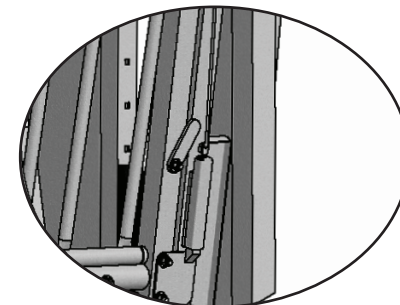


Manual Controls

The side exit release and floor adjustment are manually controlled. The handle to release the side exit is positioned next to the hydraulic levers. Ensure no one is on the exit side of the chute. Release the side and it will swing open.

NOTICE

Maintain side exit safety tab in closed position (shown); when the animal is exiting through the side exit place the latch in the open position.


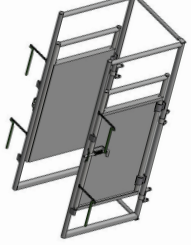
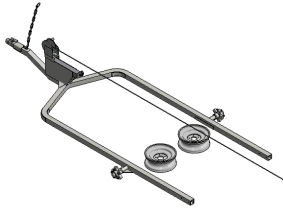
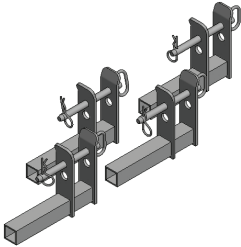


Replacement Parts

Part Number	Description	Image
001-00170	Urethane Yoke	
002-40135	Side Adjustment Handle	
319-10080	Floor Adjustment Retainer Pin	

NOTICE For information on additional replacement parts please call 800-453-5318.

Recommended Products

Part Number	Description	Image
002-20000	Neck Extender	
004-00040	Sheeted Pregnancy Gate	
002-59100	H2000 Compatible Chute Trailer	
NOTICE 002-59110 Trailer Stirrup Set must be ordered with trailer		
002-59110	Trailer Stirrup Set*	

Motor Wiring Diagrams

220 V Clockwise Wiring for Marathon Motor Model

MOTOR		Infrastructure
Green		Ground (Green)
P1		Line 1 (Black)
Blue T1 Black		Insulate (wire nut)
P2		Insulate (wire nut)
Orange Red White		Insulate (wire nut)
Yellow		Line 2 (white)[sometimes red]

110 V Clockwise Wiring for Marathon Motor Model

MOTOR		Infrastructure
Green		Ground (Green)
P1		Line 1 (Black)
Blue T1		Insulate (wire nut)
Black P2		Insulate (wire nut)
Orange		
Red White Yellow		Line 2 (white)[common]

Troubleshooting

Pump does not develop pressure	<ol style="list-style-type: none"> 1 System relief valve set to low or is leaking 2 Oil temperature is too high 3 Pump is worn 	<ol style="list-style-type: none"> 1 Check system relief valve for proper setting 2 Let oil cool to below 140° 3 Replace parts or pump
Motor won't start	<ol style="list-style-type: none"> 1 Loose connection 2 Circuit breaker tripped 3 Voltage drop 4 Seized pump 	<ol style="list-style-type: none"> 1 Check wiring 2 Reset circuit breaker 3 Use heavier gauge wire 4 Replace pump, hit reset
Will not pump oil (Motor runs but cylinder does not move or moves slowly)	<ol style="list-style-type: none"> 1 No oil in reservoir 2 Motor operating in wrong rotational direction 3 Oil level low 4 Suction strainer is clogged 5 Double acting cylinder piston seals are cut or worn out 6 Reservoir breather is clogged 	<ol style="list-style-type: none"> 1 Check oil level, refill 2 Change rotation of prime mover 3 Add oil as needed 4 Clean suction strainer 5 Replace or repair cylinder 6 Clean reservoir breather and reinstall
Pump motor is excessively noisy	<ol style="list-style-type: none"> 1. Low oil level 2. Air in system 3. Strainer or filter is clogged 	<ol style="list-style-type: none"> 1 Add oil 2 Bleed air from highest fitting in system by loosening fitting slightly and operating unit until bubbling of air stops, then tighten 3 Clean suction strainer or inline filter
Only some hydraulic controls work	<ol style="list-style-type: none"> 1. Needs more electric power 	<ol style="list-style-type: none"> 1. Check wiring/ consult electrician

FOR SUPPORT AND INFORMATION CALL: 800-453-5318

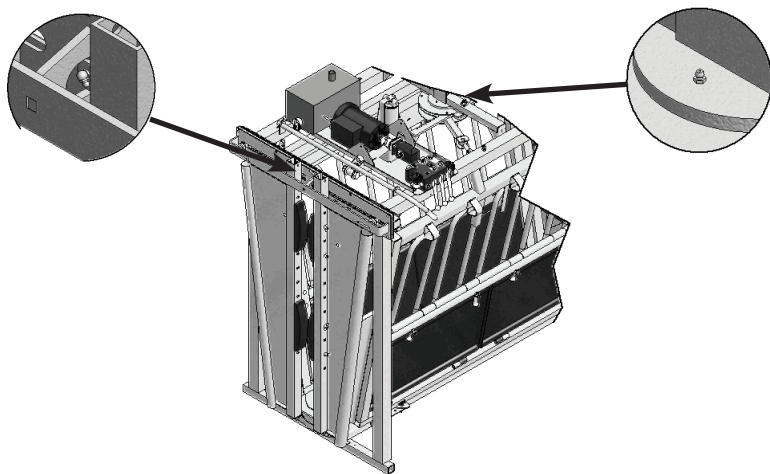
Specifications

Fluid	4 Gallons – AW 32 hydraulic oil
Electrical Requirements	Minimum 20 amp service 110 volt (factory wired)
Cord	Recommend 10 gauge 75 feet or less
Generator	Minimum 8500 watts

Maintenance Schedule

Before Every Working Session	
Lubrication	The H2000 Hydraulic Chute requires lubrication for a long life service; there are two lubrication points (see image).
Inspection	Inspect chute for broken, worn or damaged parts
	Ensure that the headgate, tailgate, squeeze, and side exit operate smoothly.
	Check bolts, hoses, wires, and fluid levels to make sure the chute is in good working order.
Before AND After Every Working Session	
Clean	Clean the chute floor, headgate and tailgate from dirt, manure or any other debris to keep chute in good working order.
As Needed	
Inspection	Check for damage that may have been caused by transit, livestock, and/or weather. Inspect the chute for any damage that may cause harm to operator or animal.

Grease Fitting Lubrication Points



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If you need assistance or have any questions regarding your Powder River equipment please contact us at:

800-453-5318



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