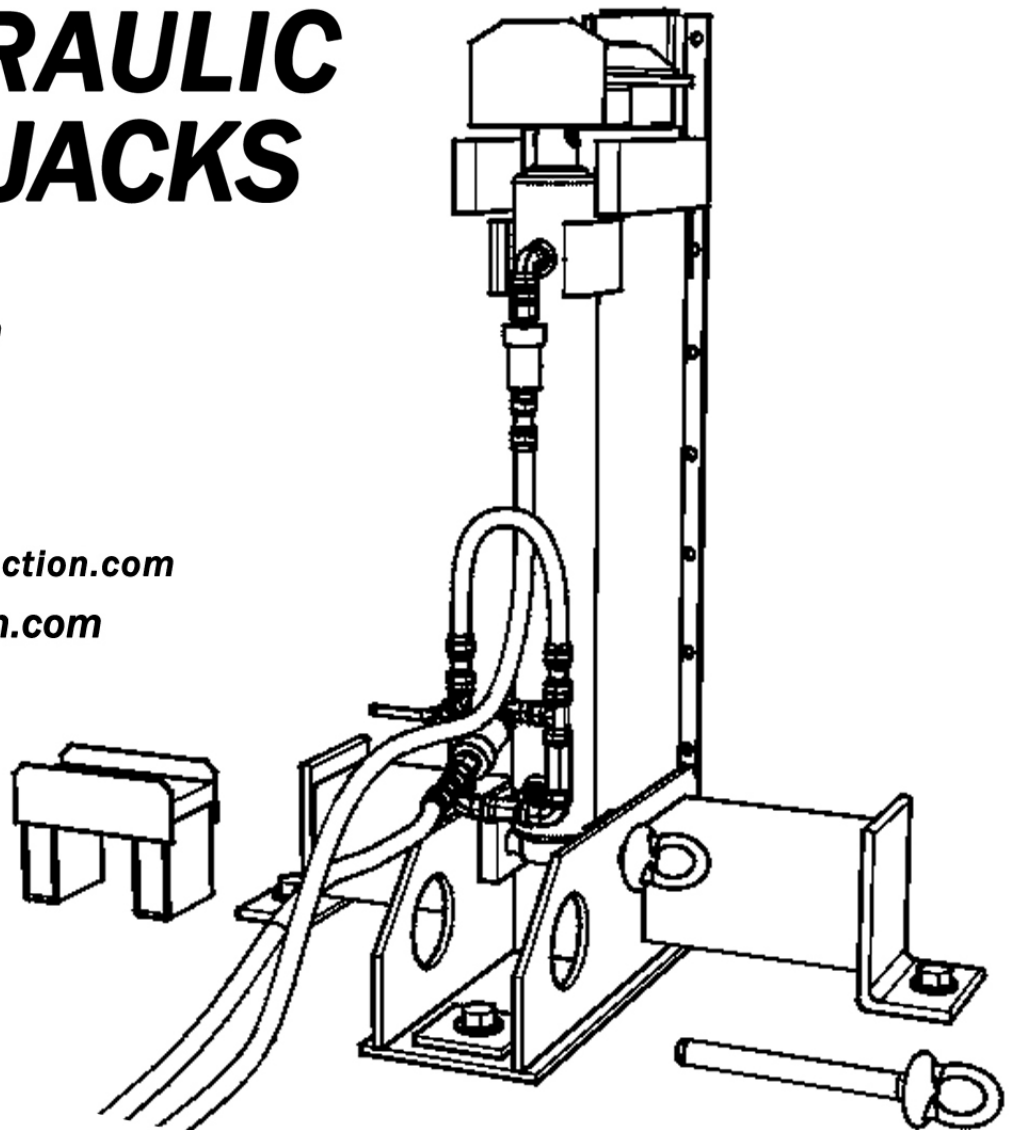


# **BAINTER**

## **12.5K LBS CAPACITY**

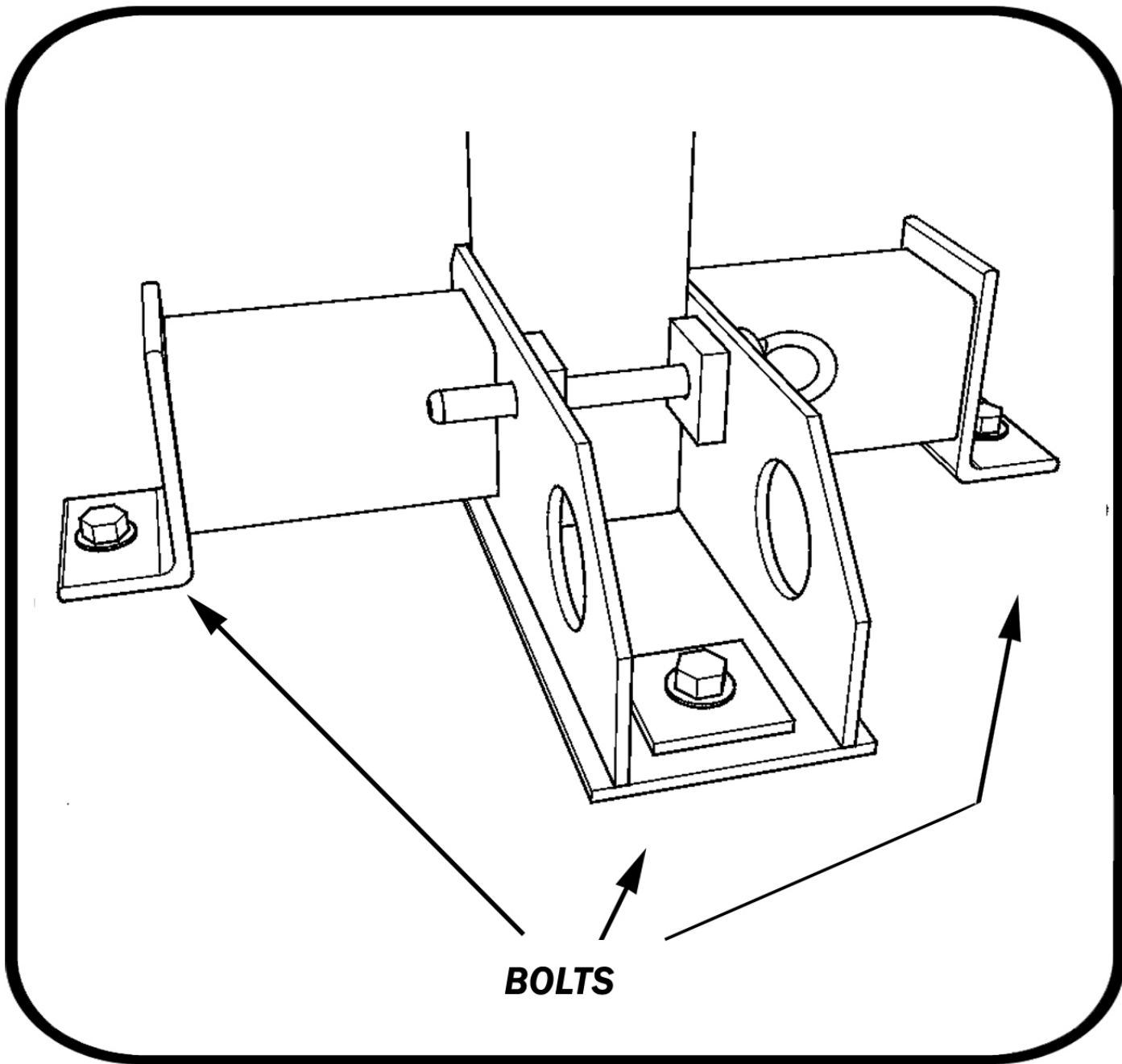
### **COMMERCIAL HYDRAULIC BIN JACKS**

**Bainter Construction**  
**844 Main St.**  
**P.O. BOX 705**  
**HOXIE, KS 67740**  
**Call: 785-675-3297**  
**info@bainterconstruction.com**  
**bainterconstruction.com**



# ***STOP!***

***These jacks must be greased before use. Remove both lift tubes and grease the entire length of each tube prior to use.***



# **CAUTION**

***ALL JACKS MUST BE SECURELY  
BOLTED TO CONCRETE THROUGH ALL  
THREE ANCHOR POINTS BEFORE USE.***

# **IMPORTANT SAFETY NOTES**

**1. In order to ensure safe operation the jacks must be firmly anchored through all three anchor points.**

**2. Make sure that the jacks are pushed firmly to the inside of the bin. This is essential to proper operation and stability.**

**3. Before operating the equipment read this manual. If you have any questions please contact us.**

*Thank you for your purchase of the Bainter Hydraulic Grain Bin Jacking System. We are here to serve your grain bin construction needs with equipment that makes your work easier, faster, and safer.*

**BAINTER CONSTRUCTION SERVICES, L.L.C.  
P.O. BOX 705 HOXIE, KS 67740  
info@bainterconstruction.com  
Phone: 785-675-3297**

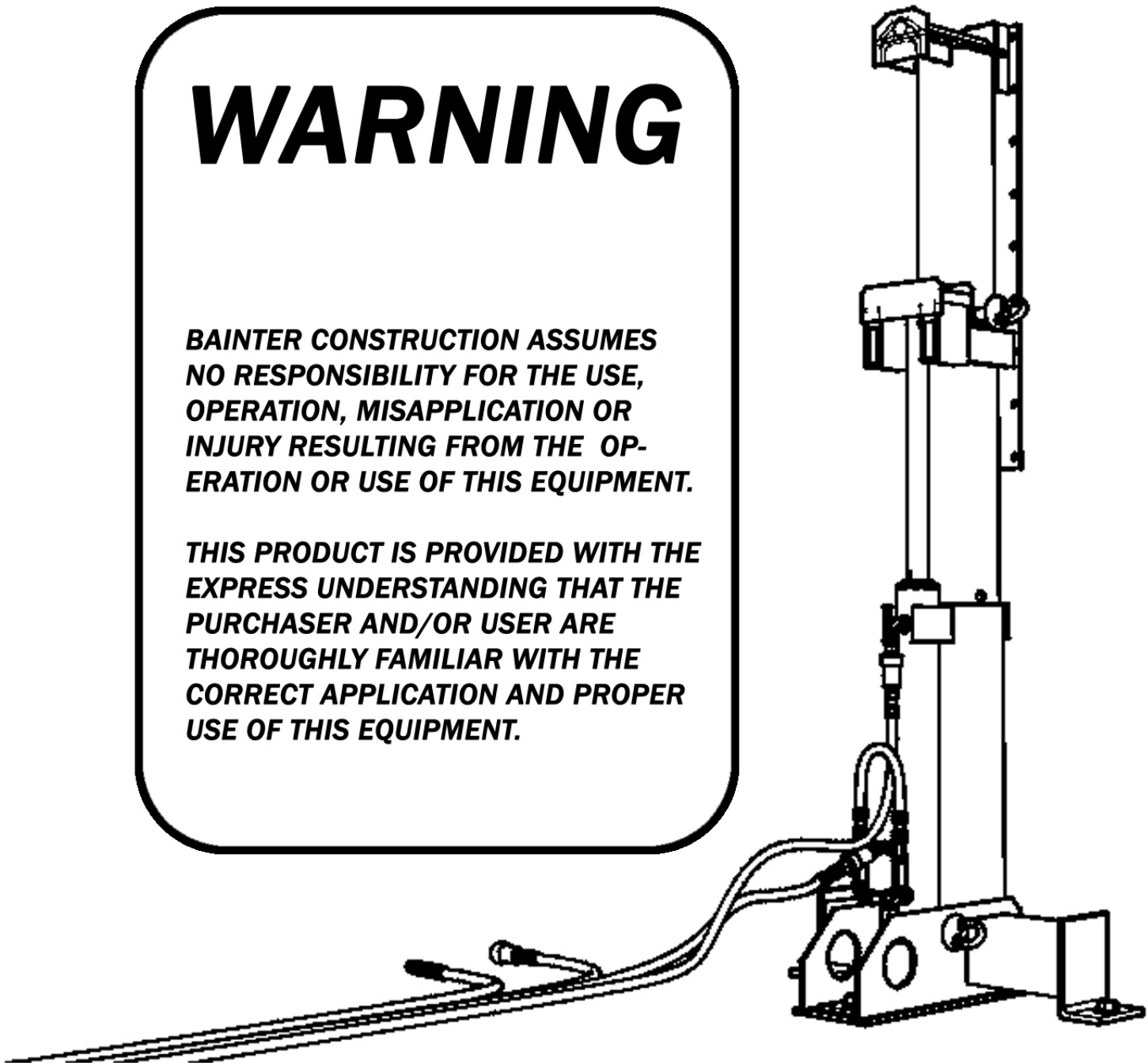


# ***BAINTER 12.5K CAPACITY HYDRAULIC BIN JACKS***

## ***WARNING***

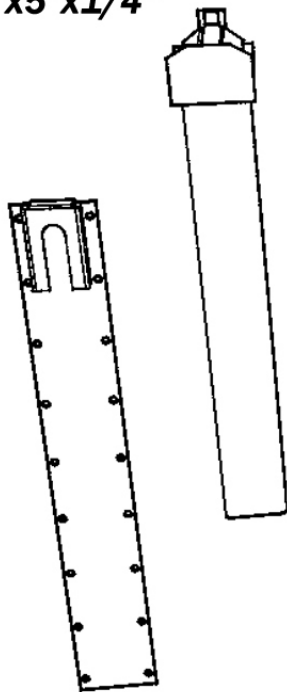
***BAINTER CONSTRUCTION ASSUMES  
NO RESPONSIBILITY FOR THE USE,  
OPERATION, MISAPPLICATION OR  
INJURY RESULTING FROM THE OP-  
ERATION OR USE OF THIS EQUIPMENT.***

***THIS PRODUCT IS PROVIDED WITH THE  
EXPRESS UNDERSTANDING THAT THE  
PURCHASER AND/OR USER ARE  
THOROUGHLY FAMILIAR WITH THE  
CORRECT APPLICATION AND PROPER  
USE OF THIS EQUIPMENT.***



# BAINTER 12.5K CAPACITY HYDRAULIC BIN JACK PARTS

**First Stage Tube**  
5"x5"x1/4"

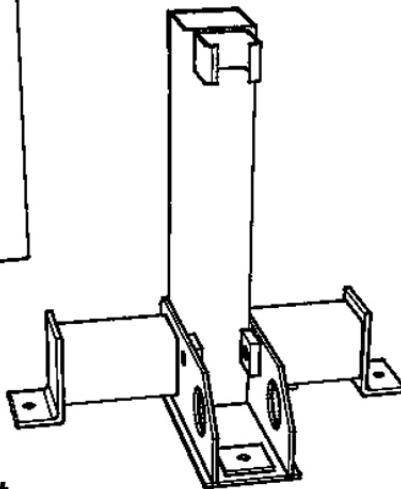


**Bin Bolt Strap:**  
Strap Design Varies  
for tanks of different  
styles and manufactures

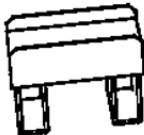
**Second Stage Tube**  
5 1/2"x5 1/2"x3/16"



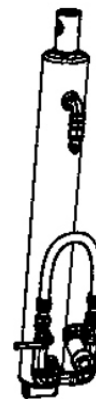
**Base**  
6"x6"x3/16"



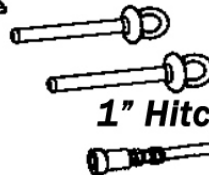
**Lifting  
Bracket**



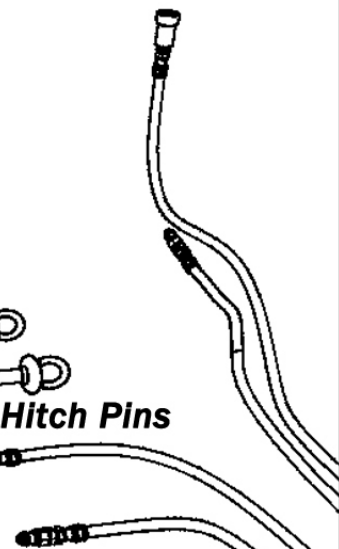
**3 1/2" x 24"**  
**Hydraulic  
Ram with  
Valve Assemblies**



**1" Hitch Pins**



**Pair of 35'**  
**1/4" Hydraulic  
Hoses**



# **BAINTER BIN JACK**

## **SAFETY FEATURE**

**CHECK VALVE SYSTEM  
PREVENTS SILO FROM  
FALLING IN THE EVENT  
OF A LINE BREAK OR  
OTHER HYDRAULIC  
FAILURES.**

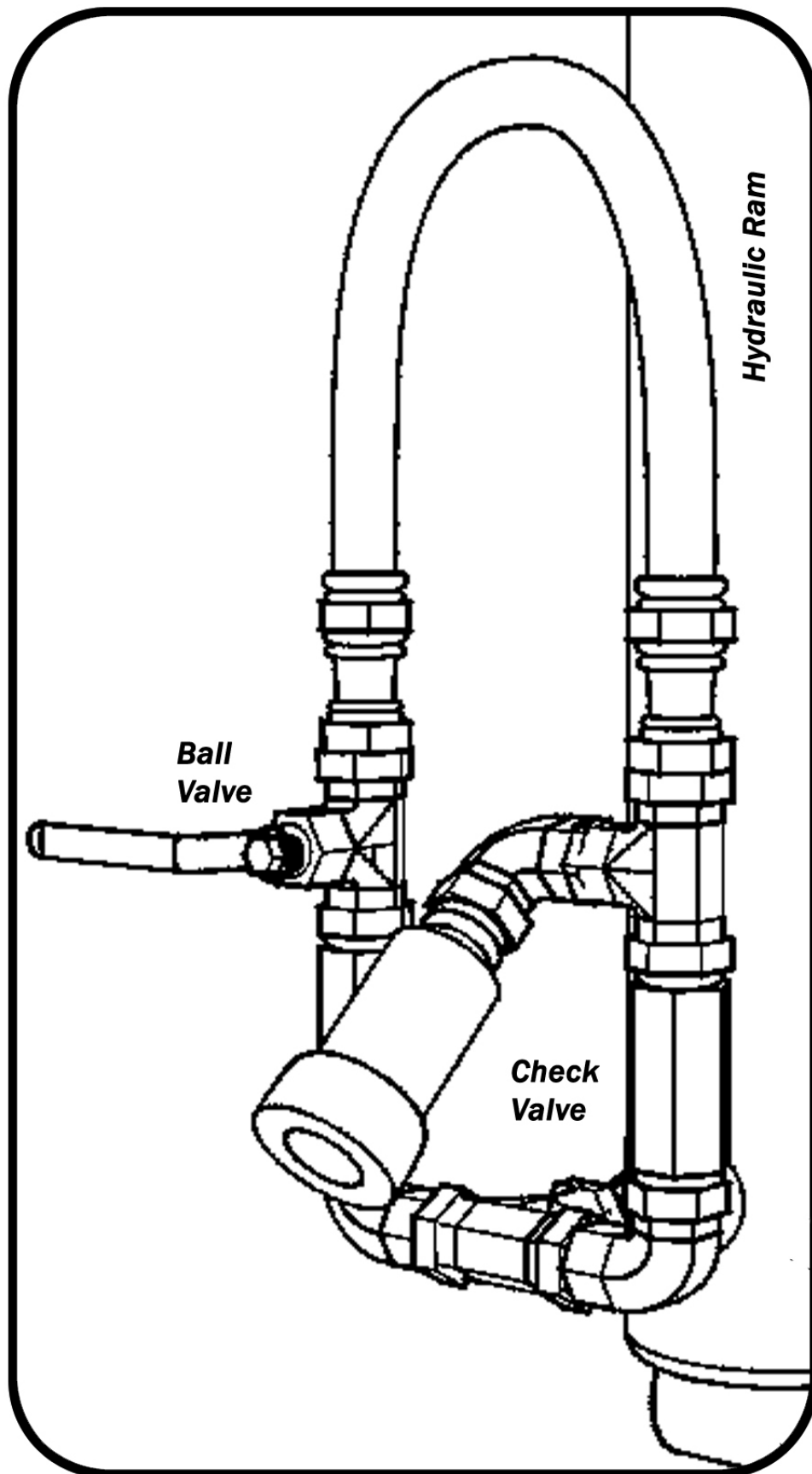
### **OPERATION DETAILS**

*Always make sure needle valve is closed when raising silo.*

*When the needle valve is closed the check valve allows the hydraulic fluid to flow through it into the cylinder in only one direction. In the event of a hydraulic failure, the oil is locked in the cylinder and this will prevent the silo from falling.*

*In order to lower hydraulic ram open needle valve 2 to 3 turns.*

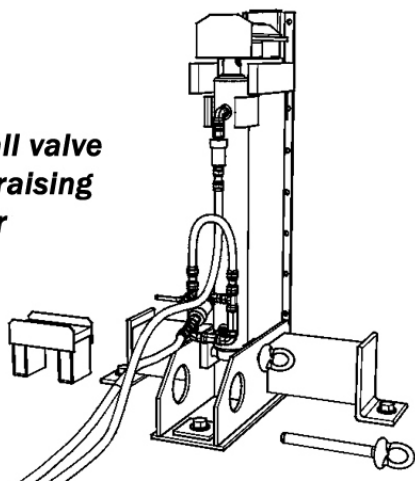
**SUMMARY:** Close valves when going up. Open valves to lower the Hydraulic Cylinders.



# Lifting the Bin

**1** Make sure jack is correctly  
Positioned against wall panel.

Shut ball valve  
before raising  
cylinder

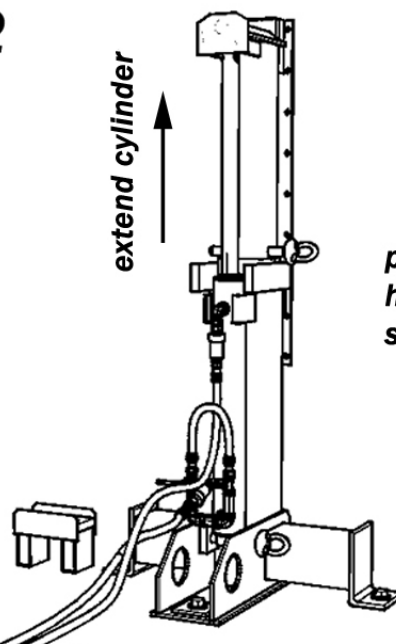


Place jack in position. Secure Jack to Concrete Hook up hydraulic lines. Shut ball valve before lifting. Lifting bracket not used for first lift.

**2**

extend cylinder

pin through  
holes in first  
stage tube

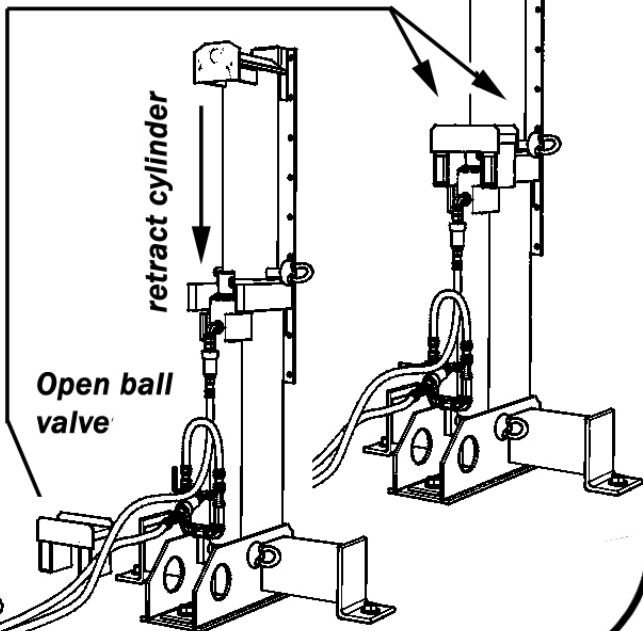


Raise first stage with hydraulic ram. Hold in position with pin through holes in first stage tube.

**3** Slide Lifting Bracket  
onto 2nd stage arms

retract cylinder

Open ball  
valve



Open ball valve, retract cylinder. Close Ball valve in preparation for next lift. Place lifting bracket on second stage arms.

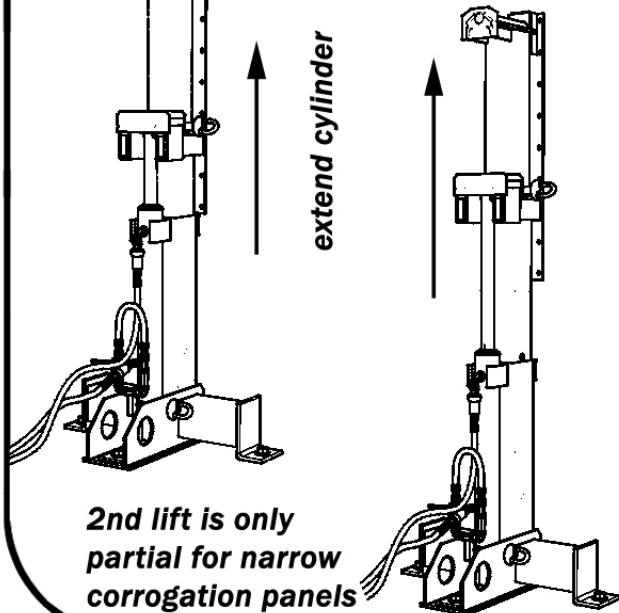
**4**

Extend fully  
for wide corrugation  
panels

32"

44"

extend cylinder



2nd lift is only  
partial for narrow  
corrugation panels

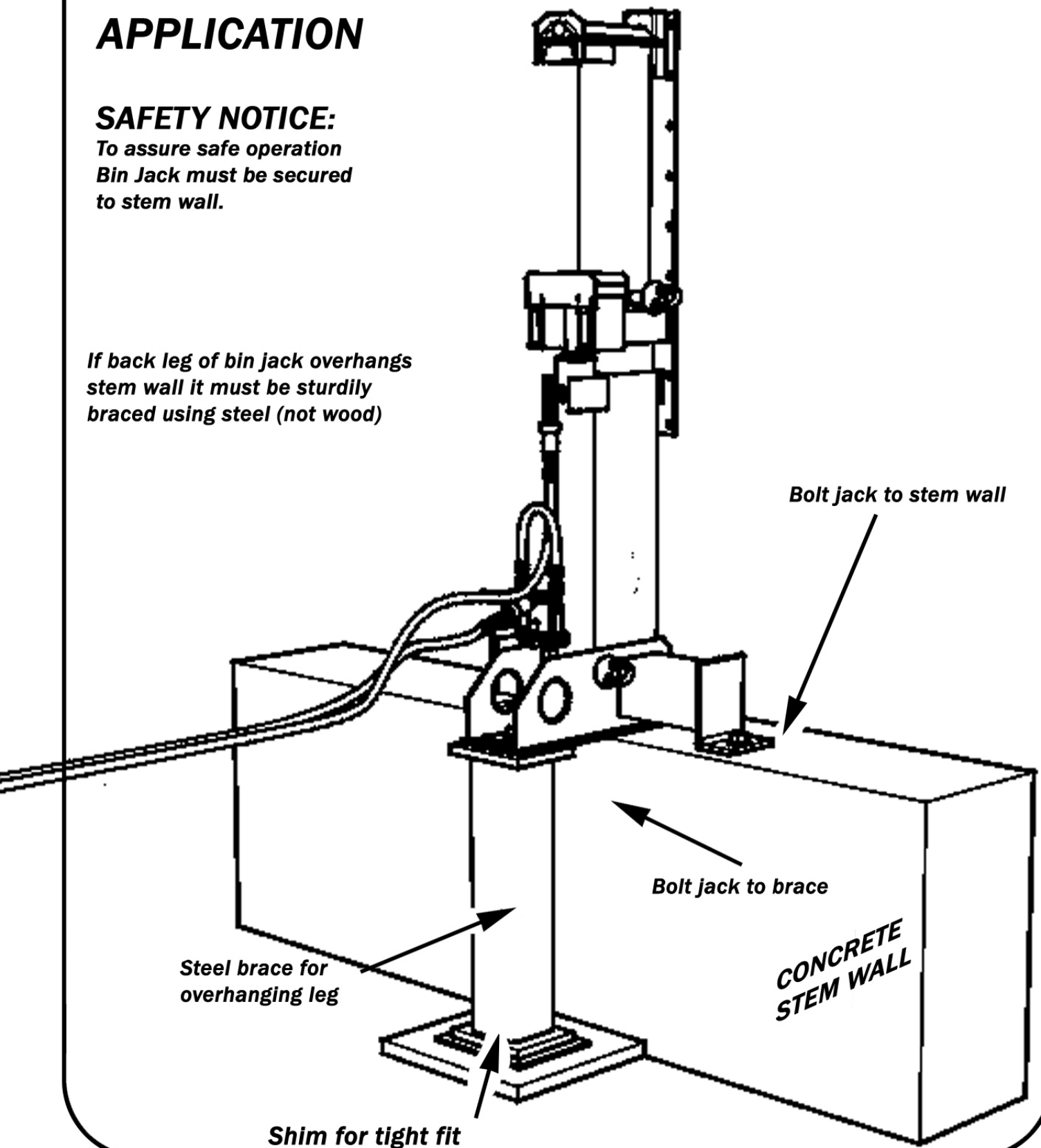
Raise 2nd stage with hydraulic ram. Hold in position with pin through holes in 2nd stage tube (optional)

# POSITIONING THE BAINTER BIN JACK IN A STEM WALL APPLICATION

## SAFETY NOTICE:

To assure safe operation  
Bin Jack must be secured  
to stem wall.

If back leg of bin jack overhangs  
stem wall it must be sturdily  
braced using steel (not wood)

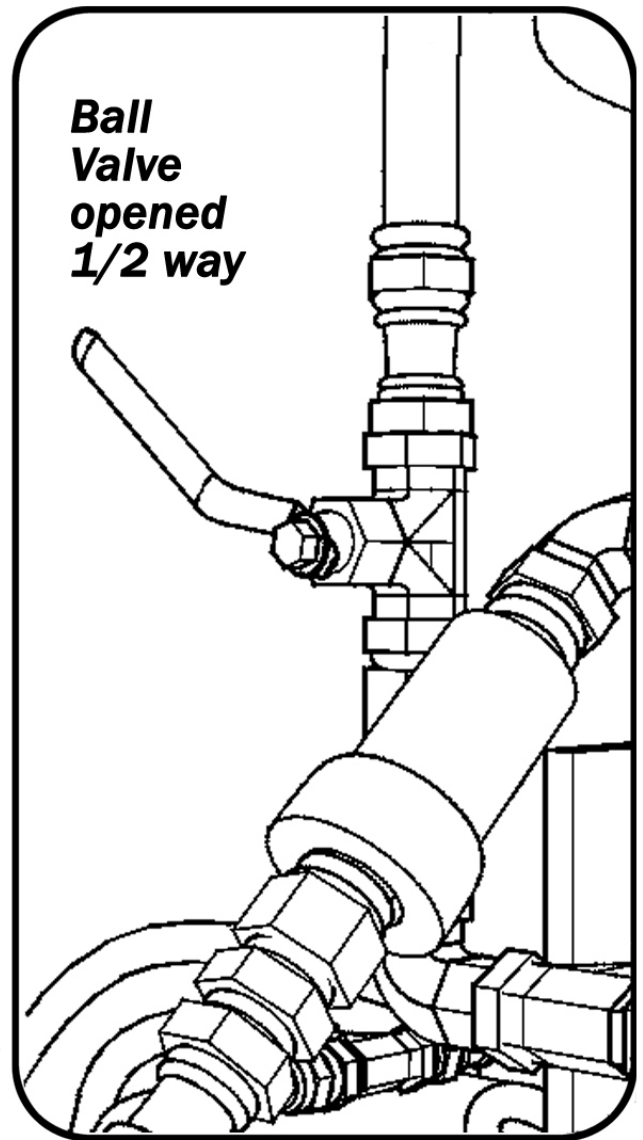
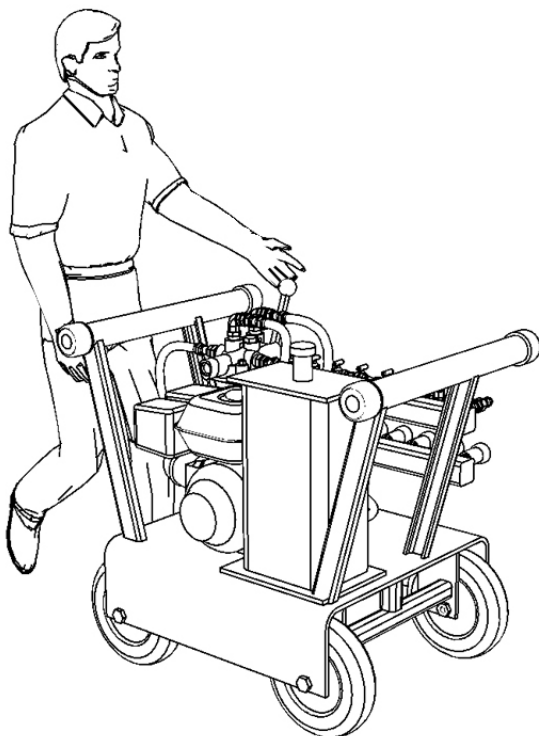


# **IMPORTANT:**

## **SPECIAL PROCEDURES RELATED TO LOWERING A BIN WITH BAINTER HYDRAULIC BIN JACKS**

When using Bainter hydraulic bin jacks to disassemble a bin or lower a ring during the building process there are some special procedures that must be followed for a safe process.

When lowering a bin the bypass ball valves on each cylinder should be opened 1/2 way. - this will slow down the oil returning to the power unit and allow you to lower the bin slowly and safely.



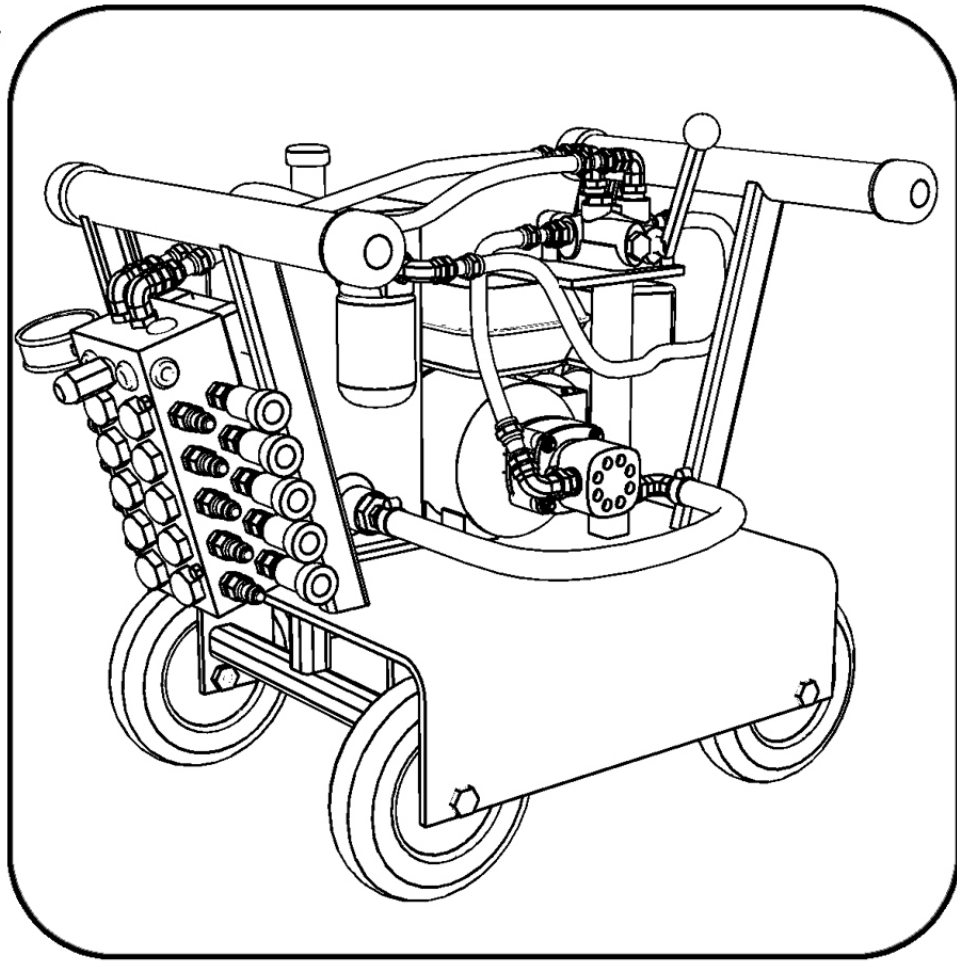
# BAINTER HYDRAULIC BIN JACK SYSTEM

## **10 jack capacity power unit**

*This power unit is powered by a 6.5 hp Honda 4 stroke engine. When in use it is located in the center of the grain bin. There are 10 pair of 1/4" quick connectors which enable you to use a maximum of 10 jacks with this power unit.*

*The 10 jack capacity power unit allows automatic flow equalization. The manifold block located on the end of the cart is designed to provide an equal 1/2 gpm to each jack.*

*When using a small number of jacks the bypass pressure on the control valve may need to be lowered. This can be adjusted by removing the cap next to the control handle and turning the allen-head screw.*



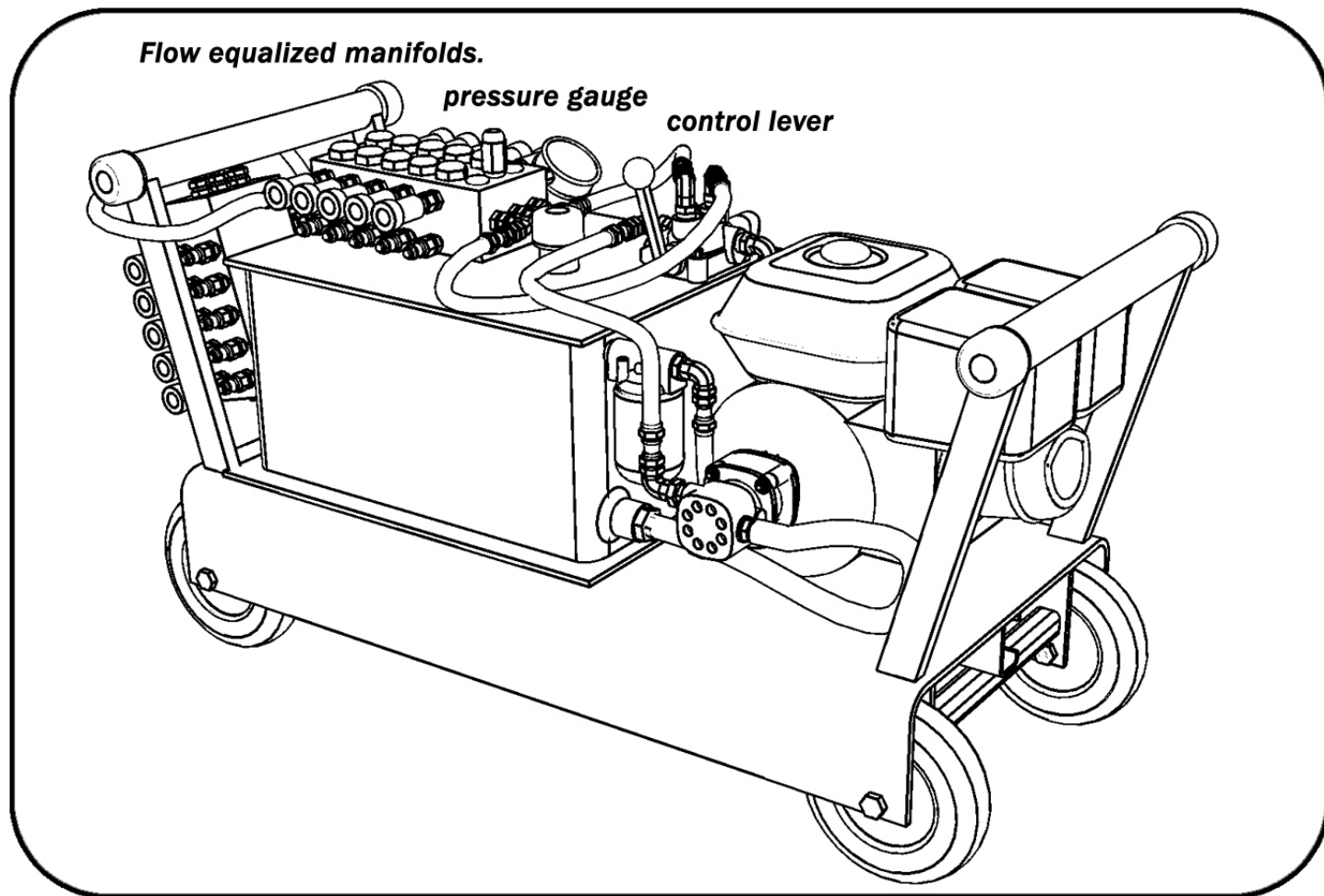
## **Tips to help the power unit operate at it's best efficiency:**

- 1. Pressure gauge should read 1200-1500 psi when jacks are being used**
- 2. Always connect the two quick connectors from each jack to two side-by-side quick connectors. cross connections will interfere with automatic leveling.**
- 3. Change filter/ hydraulic fluid at least once a season**
- 4. Maintain Honda motor as per included Honda manual.**

## **CONNECTING THE HYDRAULIC LINES**

*The sets of hydraulic lines coming from jack are quick connected together by 1/4" quick connectors. Disconnect one pair of these lines and quick connect one to each of the manifolds. The manifold has 10 identical pairs of quick connectors. Likewise, one of each pair of lines from the jack has female connections and the other has male. Connect male to female and female to male. Always make sure the quick connectors are fully snapped together to have complete hydraulic fluid circulation.*

# 20 Jack Capacity Power Unit



**The 20 jack capacity hydraulic power unit is powered by a 13 hp 4 stroke Honda Engine. This power unit uses manifolds with integrated flow equalizers to keep the bin level automatically. The manifold is set to provide an equal flow of 1/2 gpm to each jack.**

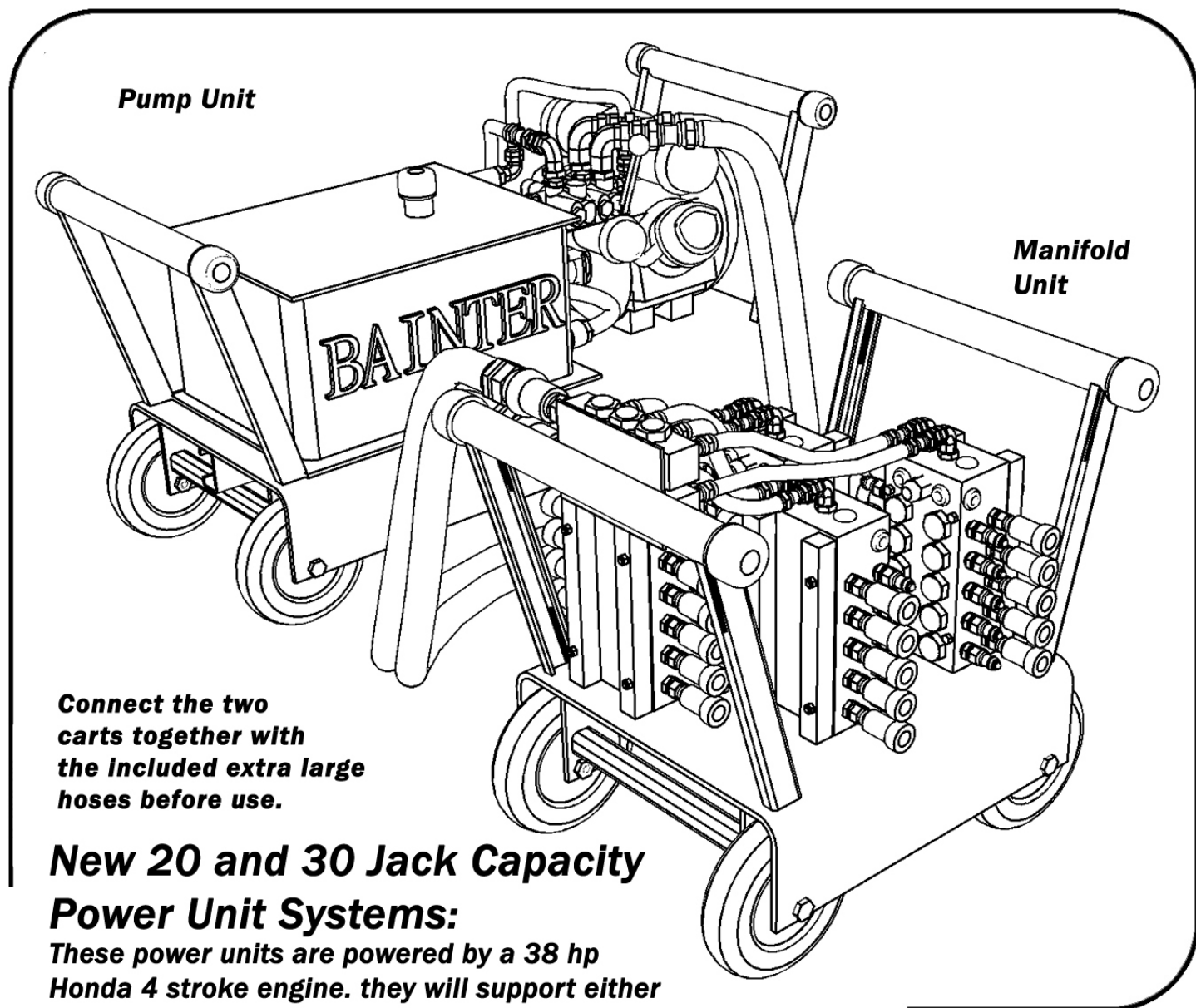
## **Tips to help the new power unit operate at it's best efficiency:**

- 1. Pressure gauge should read 1500 psi when jacks are being used**
- 2. Always connect the two quick connectors from each jack to two side-by-side quick connectors. cross connections will interfere with automatic leveling.**
- 3. Change filter/ hydraulic fluid at least once a season**
- 4. Maintain Honda motor as per included Honda manual.**

***Note: to achieve best results the power unit may need to be operated at less than full throttle when a small number of jacks are used. As an alternative do not fully engage the control lever- this will compensate for the decreased flow necessary in situations were fewer jacks are used.***



# 30 and 40 Jack Capacity Hydraulic Power Units



**Connect the two carts together with the included extra large hoses before use.**

## **New 20 and 30 Jack Capacity Power Unit Systems:**

**These power units are powered by a 38 hp Honda 4 stroke engine. they will support either up to 30 or up to 40 jacks (depending on how they were equipped when ordered) These power units are set to provide an equal flow of 1/2 gpm to each jack, allowing for level lifting.**

**Tips to help the new power unit operate at it's best efficiency:**

- 1. Pressure gauge should read 1500 psi when jacks are being used**
- 2. Always connect the two quick connectors from each jack to two side-by-side quick connectors. cross connections will interfere with automatic leveling.**
- 3. Change filter/ hydraulic fluid at least once a season**
- 4. Maintain Honda motor as per included Honda manual.**

**NOTE: If the power unit is used with fewer than 20 jacks the motor may need to be idled down**

# POWER UNIT MAINTENANCE

**Change oil in Honda/Kohler motor as per mfg's recommendations**

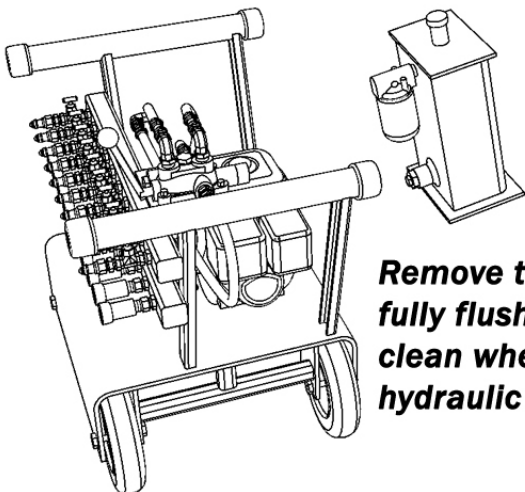
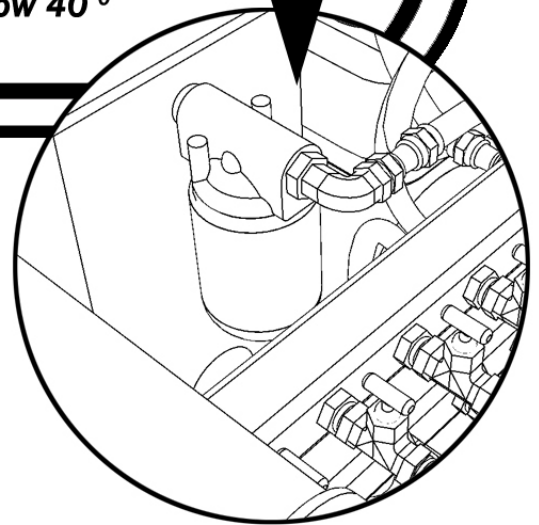
**change and flush hydraulic oil system at least once per year and change oil filters at this time as well as check the screen on the reservoir tank outlet.**

**replace oil filter with 10 micron filter.**

**for 10 and 20 jack capacity power units use:  
Fleet Guard HF6510 - Baldwin BT839-10 - Wix 51259**

**for 30, 40, 50, and 60 jack capacity power units use:  
Wix 51759 Baldwin BT 28710 F5068-10c**

**Use 30 weight. hydraulic oil in reservoir. Fill reservoir (when jacks are retracted) to 1" below top of tank.  
If jacks are being used in weather below 40 °  
10 weight oil should be used.**



**Remove tank to fully flush out and clean when changing hydraulic oil.**

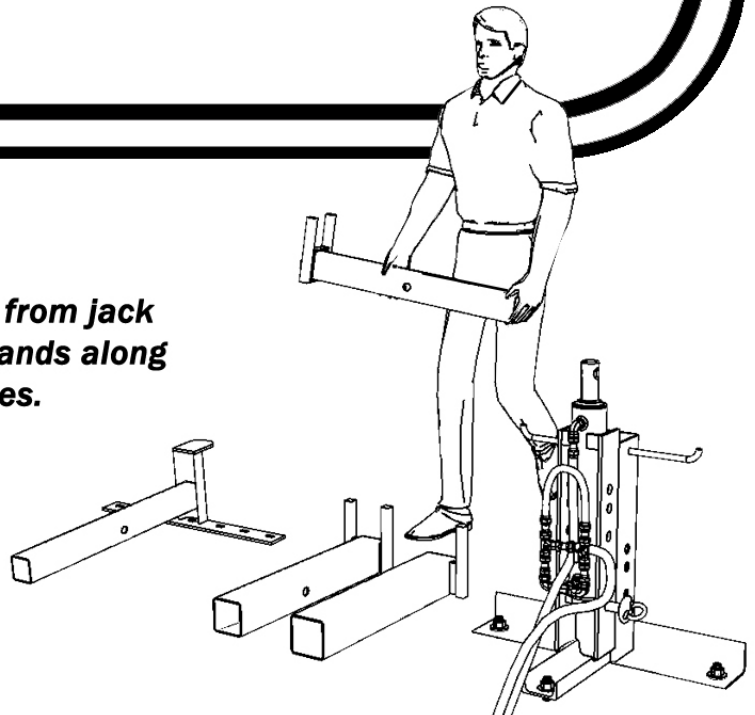
# HYDRAULIC JACK MAINTENANCE

***Thoroughly grease lifting tubes before use. recheck grease before the start of each bin and reapply grease as needed.***

***As needed ( at least once per season) strip off grease and reapply.***

***periodically check hoses for cracks or wear that would indicated potential leaks.***

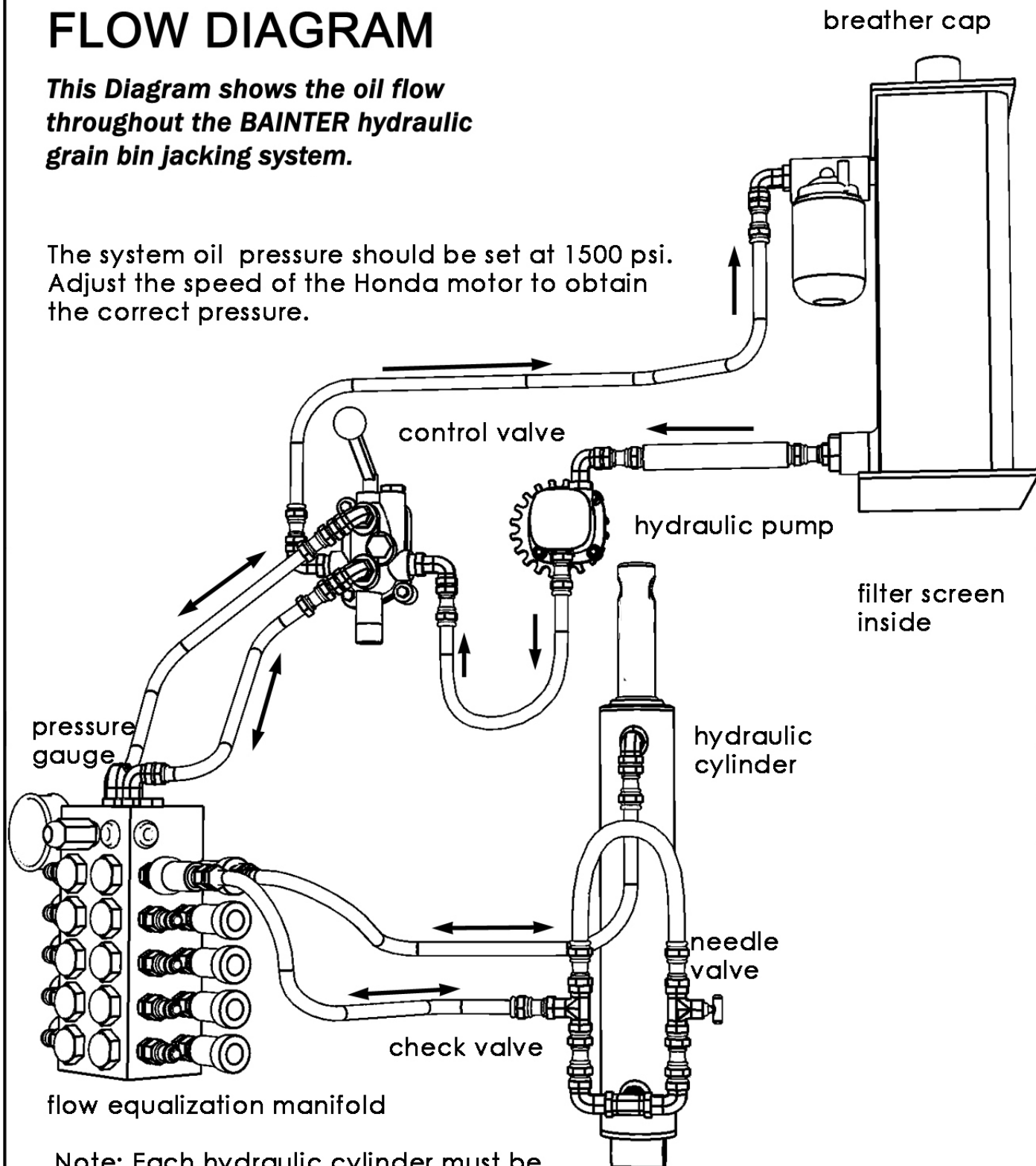
***To grease tubes remove from jack and apply grease with hands along full length of all four sides.***



# HYDRAULIC OIL FLOW DIAGRAM

*This Diagram shows the oil flow throughout the BAINTER hydraulic grain bin jacking system.*

The system oil pressure should be set at 1500 psi. Adjust the speed of the Honda motor to obtain the correct pressure.



Note: Each hydraulic cylinder must be connected to adjacent male and female quick connectors to allow the manifold to work correctly.