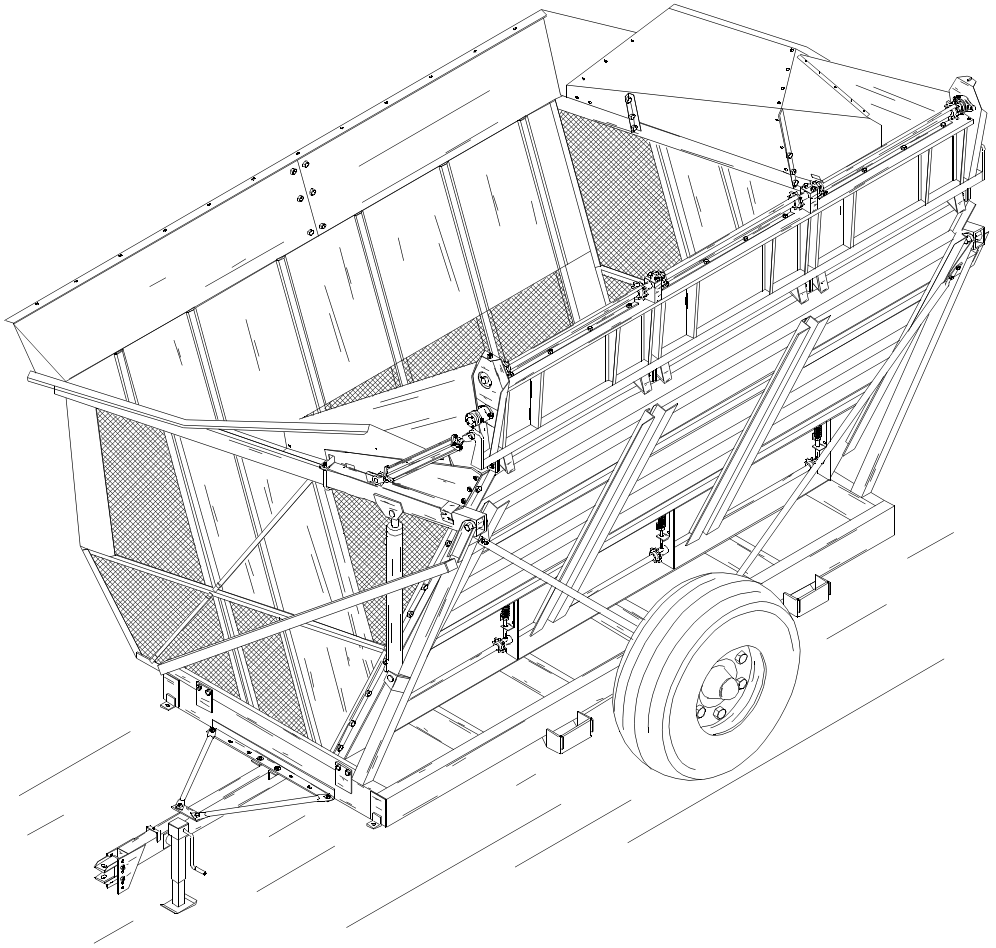
CrustBuster
SPEED KING INC.

Super 20XL

BOLL BUGGY

REPAIR PARTS



607283-0307

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Identification

Your Boll Buggy is identified by a Serial Number and Model Number. Record these numbers in the spaces provided in this manual and refer to them when ordering parts or requesting service.

Serial Number	Model Number

Warranty

WARRANTY: In addition to the implied warranties of fitness and of merchantability, CrustBuster/Speed King warrants new products sold by it to be free from defects in workmanship and material for a period of 12 months, from the date of delivery to the first user customer. Warranty on purchased parts (cylinder and motors) will be the same as that offered by the appropriate manufacturer of these parts.

EXCLUSIONS: No warranty of any kind is made by CrustBuster/Speed King with regard to new products which have been subject to operation in excess of recommended capacities, misuse, abuse, negligence, or accident, or have been altered or repaired in any manner not authorized by CrustBuster/Speed King. CrustBuster/Speed King is constantly striving to improve its products. Changes in design and improvement will be made whenever CrustBuster/Speed King believes the efficiency of its products will be improved thereby, but without incurring any obligation to incorporate such improvements in any products which have been shipped or are in service. No obligation exists for compensation of unauthorized repairs or modifications without prior approval. And in no event will CrustBuster/Speed King be liable for consequential damages, such as but not limited to: downtime, delays, etc.

WARRANTY REGISTRATION: This warranty is not valid unless registered with CrustBuster/Speed King within 10 days from the date of purchase. It is the sole responsibility of the selling retail dealer to fill out the registration forms and see that they are properly filed with CrustBuster/Speed King.

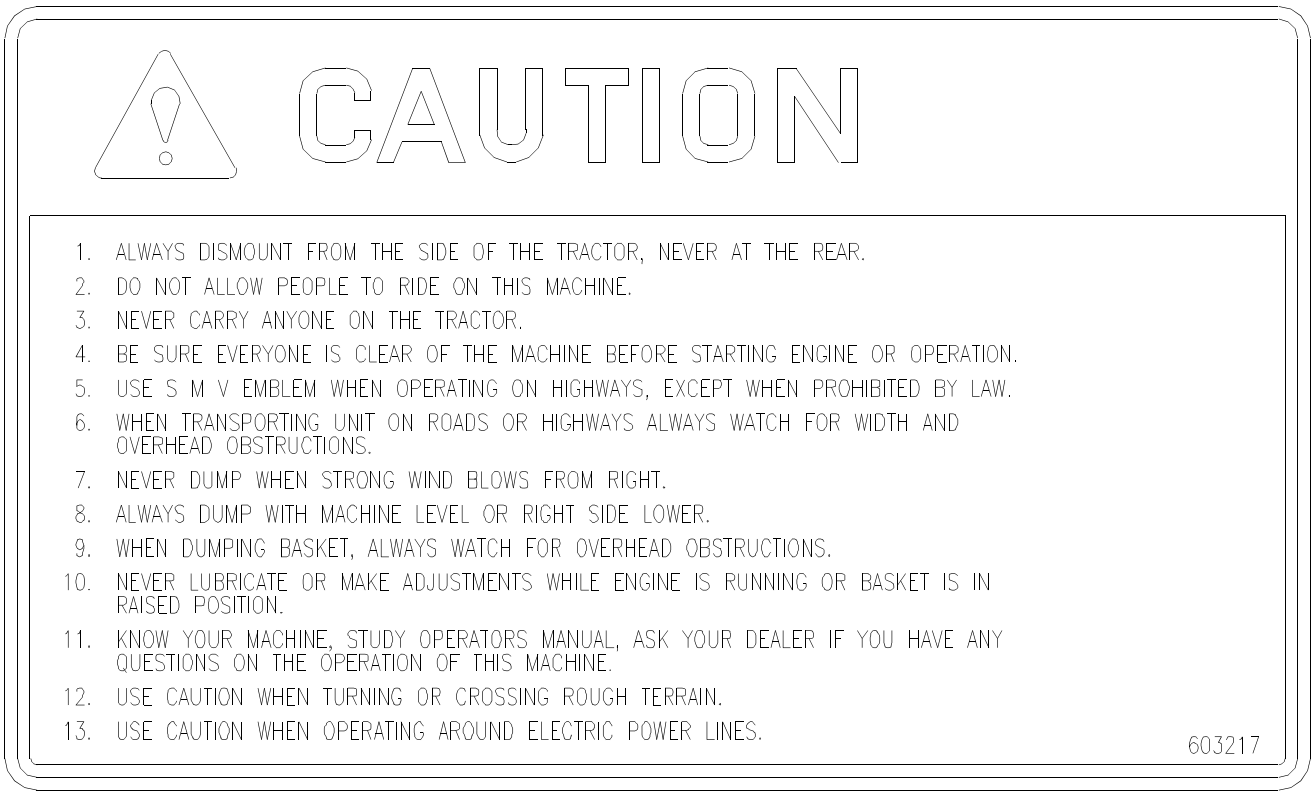
WARRANTY PROCEDURE: Should any part fail to conform with this warranty, CrustBuster/Speed King will repair or replace the part or parts which do not conform. If a part is defective, take it to your authorized CrustBuster Farm Equipment Dealer immediately, along with your warranty registration, and complete the proper forms requesting a warranty adjustment. Our representative will pick up the part to be returned to the factory for examination. If the customer (first user) requests that a new part be substituted for the old part, a new part will be charged to the dealer who will in turn charge the customer. If the part is found by us to be defective, a credit for the part will be given to the dealer to be passed on to the customer. If the dealer or customer wishes to repair the part, this will be done only if authorized by CrustBuster/Speed King. This warranty procedure is in addition to all remedies authorized by law.

CRUSTBUSTER/SPEED KING, INC.
Box 1438
Dodge City, KS 67801

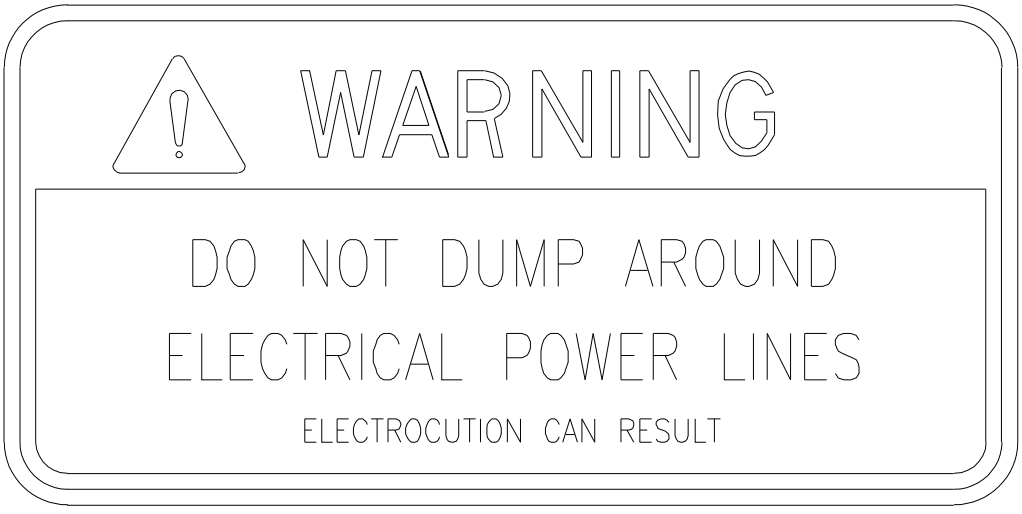
Safety

Read and follow these instructions for your safety and the safety of anyone around the machine. Keep safety signs clean and legible at all times. Replace safety signs that are missing or have become illegible.

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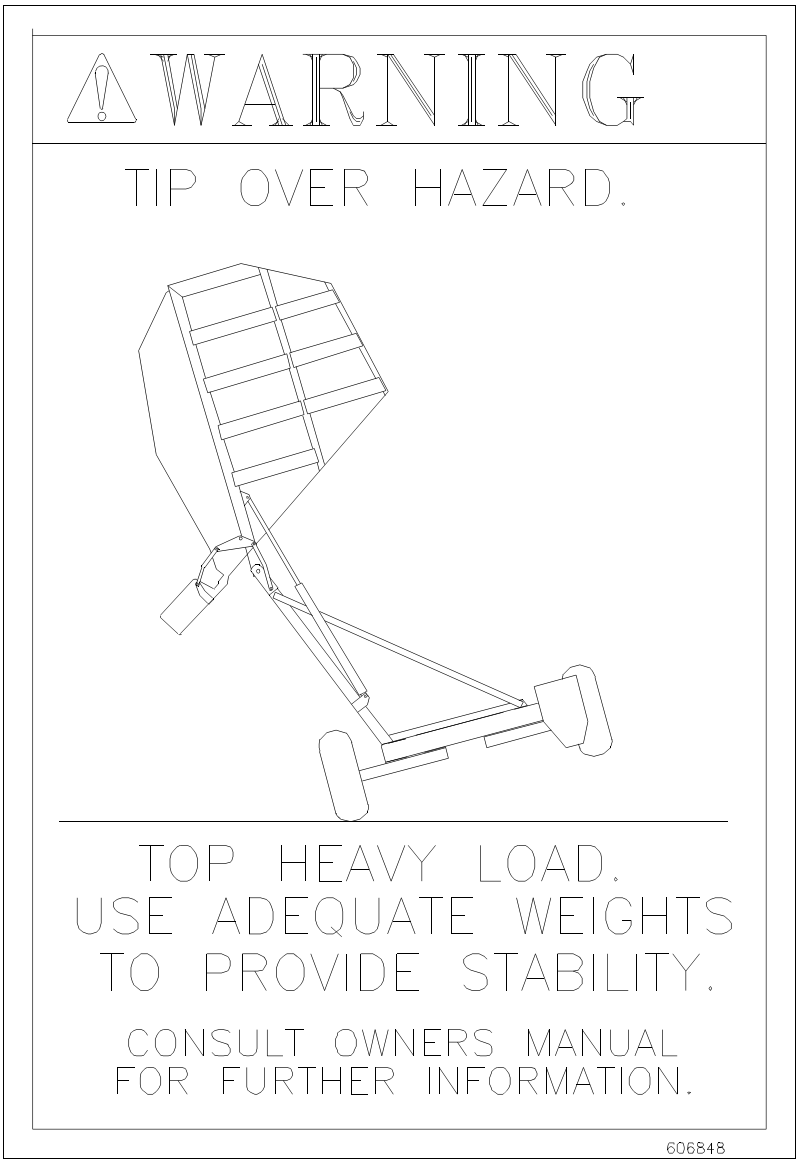


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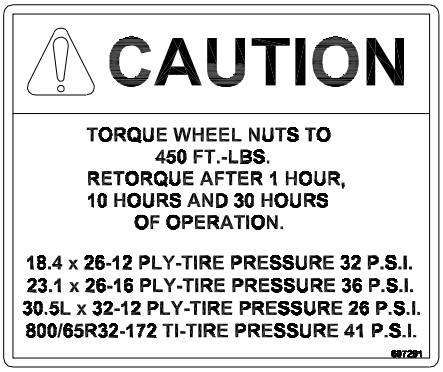


Safety

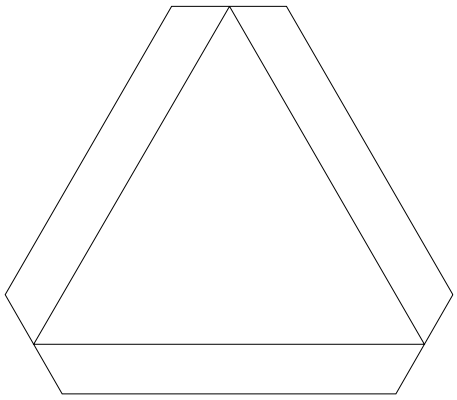
#606848



#607291



#604512



May we suggest that you take a few additional minutes to read over more than once the areas of this manual where **SAFETY SYMBOLS** and **CAUTION** notes appear. These are areas where the operator should use particular care.

Play it **"SAFE."**

KNOW THE DANGER AREA AND AVOID THEM.

Look for this symbol to point out important safety precautions. It means---



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED.

Dealer Check List

Pre-Delivery Check List

After the Boll Buggy has been completely assembled and lubricated, inspect it thoroughly to be certain it is in good running order before delivering it to the customer. The following check list is a reminder of points to inspect. Check off each item as it is found satisfactory, or after proper adjustment is made.

Boll Buggy Inspection

_____ Check all bolts and nuts to be sure they are on tight.

_____ Check hydraulic system to make sure it has been purged to remove air as instructed in owner's manual.

_____ Hitch adjusted to level Boll Buggy as instructed in owner's manual.

_____ Check and, if necessary, lubricate all lubrication points.

_____ Check to see if the safety decals are in place. (Refer to pages 1-2 for decal information.)

_____ Check wheel hubs for bearing preload and remove end play if necessary.

Boll Buggy Functional Test

_____ Attach Boll Buggy to tractor drawbar securely. Raise basket gradually, paying particular attention to the last 8 to 10 inches of cylinder stroke not to unbalance the unit with a sudden surge of hydraulic pressure. **Models equipped with regulator, fold-out door and/or chain dump side must be weighted to provide stability.**

NOTE: Observe safety precautions on the decal and in the manual while dumping basket. WATCH FOR OVERHEAD OBSTRUCTION.

Delivery Check List

_____ Explain the adjustments for implement operation.

_____ Review safety precautions with the owner and operator as stated on the safety decal and in the manual.

_____ Give the customer the owner's manual and explain the importance of reading this manual.

IMPORTANT: The Warranty Registration form must be completed, signed by both dealer and customer and returned to CrustBuster/Speed King, Inc., Box 1438, Dodge City, KS 67801, to validate the warranty. If warranty registration is not completed and returned, the product concerned will not be covered by warranty policy.

Operation

Familiarize yourself with the various features of the Boll Buggy before operating. Read this section of your manual carefully.

Attaching to Tractor

1. Adjust tongue ball hitch (standard) or clevis hitch (optional) to the appropriate holes on the tongue to level main frame when attached to tractor drawbar.

2. Attach Boll Buggy to tractor(for the standard ball hitch) using a 2 5/16" ball (minimum capacity 12,500#) with enough shank and thread length to secure it with a full depth nut and lock washer. Make sure the ball shank threads go all the way through the nut.

   To Couple:
   1. Block buggy wheels.
   2. Align hitch ball beneath coupler.
   3. Set the locking pin in the open position.
   4. Slide the locking plate into the open position and lower the buggy onto the hitch ball.
   5. Visually check that the hitch ball is fully seated in the coupler.
   6. Slide the locking plate into the closed position.
   7. Set the locking pin in the closed position to close the coupler.

   To Uncouple:
   1. Block buggy wheels.
   2. Set the locking pin in the open position.
   3. Slide the locking plate into the open position and raise buggy from the hitch ball.

3. The tongue on the Boll Buggy can be mounted in three positions: offset left or right, and on center line. Determine required position and bolt in place. See *Figure 1* for dimensions.

   NOTE: Support tongue when removing bolts to adjust.

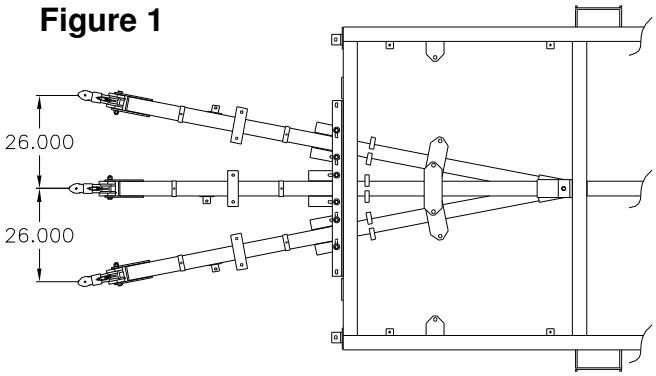
Adjusting Wheel Spacing

Wheel Spacings are from 120" to 160".
From the minimum wheel spacing of 120", each wheel can be adjusted out 20". This makes it possible to provide more stability to the dump out side.

Example:	Set wheels on dump in side out		10"
	Set wheels on dump out side out		20"
		+	120"
	Wheel spacing	=	150"

This will fit 5- 30" rows, but put the tractor ½ row off. This can be remedied by using a hydraulic swing hitch or adjusting the hitch and tractor drawbar to center the tractor back on the row. See *Figure 2.*

Figure 1



Hydraulic System Purging Procedure

Hydraulic cylinders and hoses must be run without load to remove all air from system.

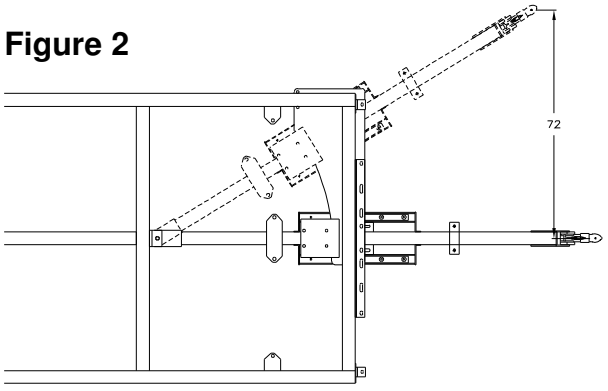
1. Remove basket cylinder rod pins attaching upper end of cylinder to basket and block or tie in place so when rod is extended it will not hit or interfere with any portion of the basket.

2. Install the required male quick coupler end onto hoses going to tractor and then attach hoses to a pair of quick coupler hydraulic fluid outlets on the tractor. Check the tractor hydraulic fluid and add fluid if system is not completely full.

3. Start tractor engine and activate valve lever to extend hydraulic cylinders approximately one-third of stroke or 20 inches. Stop at this point and check hydraulic fluid level in tractor. Add required amount to bring level to full. Again extend hydraulic cylinder an additional 20 inches of stroke. Repeat procedure above in checking fluid level in tractor. Extend cylinders to maximum extended position and repeat procedure used to check fluid level.

4. With the tractor fluid at a safe operational level, fully retract and extend the cylinders several times to insure removal of all air from system.

Figure 2



Operation

5. Retract cylinders to fully closed position and reconnect cylinder rod to basket using cylinder pin.

6. Repeat above procedure for packer panel, swing tongue and chain dump unload panel cylinders; except it is not necessary to disconnect cylinders during purging procedure.

7. After cycling all cylinders and purging lines and cylinders of any air locks, check to be certain all cylinder pins are securely held in place and will not work out under load.

8. You are now ready to dry run the unit. Complete the lubrication of the unit as described on page 8. Read the operating section of this manual before dry running of unit.



CAUTION:

While cycling the basket for the first time it is best to have an observer on the ground at a safe distance to give instructions to the operator. The observer will be looking for any hydraulic hose pinch points, loose connections, any binding of basket or packer panel, or anything else that would prohibit the safe and successful operation of the unit. Be sure to observe the hoses at the main pivot point in the upper corner for sufficient slack.

Weights For Stability



Tip Over Hazard

Many things affect the stability of the Boll Buggy. The addition of the Big Lip, regulator, and chain door make the Boll Buggy more unstable. Wider wheel spacing will increase stability.

With the dump-out side wheel set to the narrowest position, it may take 2500 pounds of weight added to the dump-in side.

Three weight racks are attached to the Boll Buggy on the dump-in side. These racks will accept tractor weights made to mount on a ½" x 6" bar. In addition to steel weights, liquid ballast can be added to the dump-in side tire. (Approximately 600#)

The requirement for added weight will decrease as the dump-out wheel is adjusted out. In the middle position approximately 1700 pounds will be needed. At the widest wheel setting the weight requirements decrease to approximately 600#.

Operating Information

Before operating this unit, *refer to the Lubrication section in this manual on page 8* and make sure machine is properly lubricated.

The Boll Buggy is designed with a unique packer panel allowing the basket to hold two dumps from most cotton pickers and strippers as well as the ability to dump the two dumps separately. This means the Boll Buggy can dump without overfilling the module builder.

To receive load from harvesting unit, extend packer panel cylinders so top end of packer panel is against the right side or dump-in side of basket. Position Boll Buggy along the side of harvester, close enough to allow transfer of cotton from harvester to Boll Buggy.

After the harvester has dumped into the Boll Buggy, the packer panel cylinders may be retracted as far as possible, thus compacting and moving the cotton to the left side of the basket.

NOTE: A relief valve has been placed in the circuit as a safety precaution so high pressures cannot be built up during the pack cycle.

At this time, the Boll Buggy is ready to receive the second dump from the harvesting unit. After receiving the second dump, the Boll Buggy packer cylinders should again be extended enough to release compaction force on first dump and at the same time compact and hold second dump.



CAUTION: When turning or crossing rough terrain, slow tractor speed down.



CAUTION: Be sure everyone is clear of the machine before starting engine or operation.

To dump the Boll Buggy, simply drive along side of trailer or module and stop at the required position. Set tractor engine RPM at approximately 1/2 to 3/4 maximum engine RPM. Actuate tractor valve lever to raise basket.



CAUTION: Use the following cautions when dumping the Boll Buggy basket:

1. Use caution when operating around power lines.

2. Watch for overload obstructions which might interfere with the basket.

Operation

3. Always select level area for dumping. If the area is uneven, position units so when the Boll Buggy is dumping, the dump-in side of the unit is lower than the dump-out side. This will minimize the possibility of unit overturning during dump cycle.

4. Do not move unit with basket partially up or basket lift cylinders partially extended. Damage could result to cylinders and/or basket frame.

5. When dumping, always note direction strong winds are blowing from. Position units so Boll Buggy basket is dumping into wind current, or that wind current is blowing into either the front or rear of the Boll Buggy.

6. Do not move Boll Buggy with the basket in the dump position.

7. Units with regulators and chain dumps must be properly weighted before dumping. **To help prevent tip-over, DO NOT raise basket fully unless positioned by Module Builder.**

Once the first dump has left basket, the remaining dump can be released by retracting packer panel cylinders. This will place the top end of packer panel against dump-out side allowing cotton to move out of basket.

The complete fill and dump cycle has now been completed and can be started again in the same sequence.

NOTE: Units with regulators are loaded and dumped in the same sequence as described above; however, the regulator will be turning while dumping. The regulator is designed to operate successfully by turning in either direction. Normally the drum will be turned in a direction to take the cotton under the drum until it is slugged. Then reverse the drum taking the slugged cotton over the top of the drum. By holding one dump of cotton with the packer panel against the dump-in side and metering only the cotton on the dump-out side, the regulator is working on only one-half a Boll Buggy load at a time. Following this procedure will meter cotton into the module builder or trailer very successfully.

Adjust tractor hydraulic flow so regulator turns slowly enough to provide a controllable amount cotton.

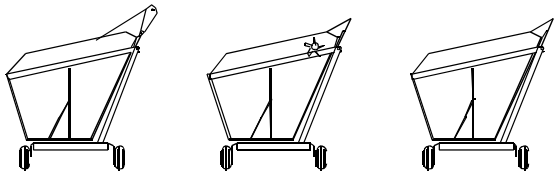
NOTE: Units with chain door are operated in the same load and dump sequence, but the chain door is used to slow and regulate the amount of cotton metered into the module builder.

Adust tractor hydraulic flow so chain door moves cotton at a controllable rate.

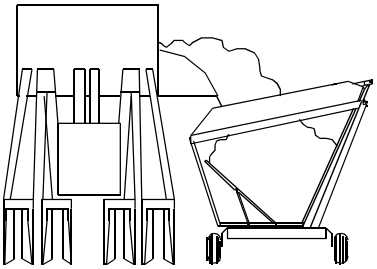
Chain door may be equipped with a front and rear motor to provide dual unload (See *page 23.*)

NOTE: To decrease wear, the hydraulic activated chain lip does not have to be fully closed during field operation if there are not any overhead obstructions.

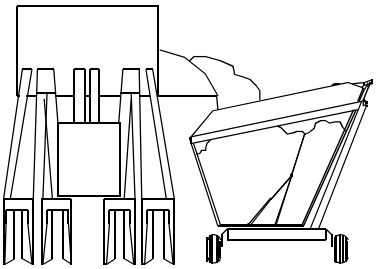
Operation



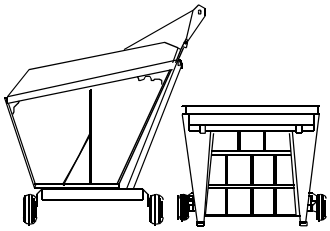
LOADING / UNLOADING PROCEDURE TYPICAL ALL BOLL BUGGY MODELS WITH PACKER / DIVIDER PANEL



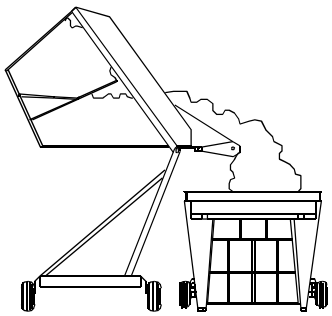
FILL BOLL BUGGY WITH PACKER / DIVIDER AGAINST INLOAD SIDE.



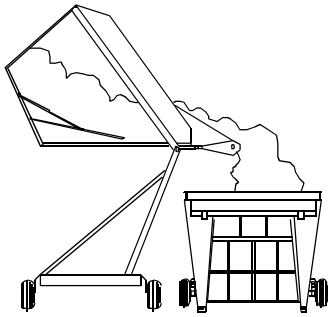
PACK COTTON TO OUTLOAD SIDE OF BOLL BUGGY AND DUMP SECOND LOAD.



MOVE PACKER / DIVIDER BACK TO INLOAD SIDE TO START UNLOAD.



RAISE BASKET AND START CHAIN DUMP, OR IF REGULATOR IS USED, START AT THIS TIME. CONTINUE UNTIL FIRST LOAD HAS BEEN EMPTIED.



MOVE PACKER / DIVIDER BACK TO UNLOAD SIDE UNTIL COTTON SLIDES ONTO CHAIN AND EMPTY SECOND LOAD.

CAUTION: DO NOT LET THE PACKER / DIVIDER COME INTO CONTACT WITH CHAIN & SLAT.

Lubrication and Maintenance

IMPORTANT: Before operating your Boll Buggy, make sure it is properly lubricated and thoroughly inspected. Only a minimum of time and effort is required to regularly lubricate and maintain this machine to insure long life and trouble-free operation.

Lubrication

- ◊ Keep all lubricants and lubrication points free from dirt and grit.
- ◊ Use a general purpose lithium base grease to lubricate the pressure grease fittings.
- ◊ The following lubrication schedule is recommended:

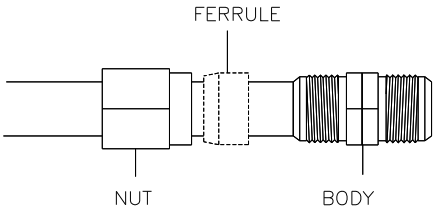
  Basket and Pivot Cylinder
  (2-Fittings) . . . . . Weekly
  Wheel Bearings . . . . . Repack Yearly
  Bearings on regulator &
  Chain door . . . . . Yearly
  Pivot on Big Lip
  (Front & Rear) . . . . . Weekly

Maintenance

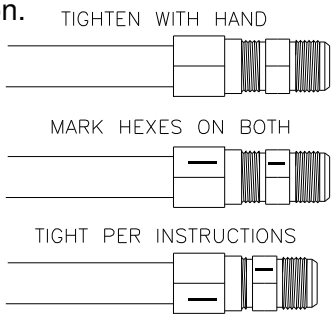
- ◊ Inspect your machine regularly to prevent accidents and breakdowns.
- ◊ Check hitch pin periodically for wear and replace if worn excessively.
- ◊ Check hitch mounting bolts occasionally to make sure they are tight.
- ◊ Check wheel spindle bearing preload after twenty(20) hours operation.
- ◊ Torque wheel nuts to 450 ft-lbs. Re-torque after 1 hour, 10 hours, and 30 hours of operation.
- ◊ Check tire pressure and inflate to 32 PSI.

Tube Fitting Assembly

1. Clean all dirt and grit from the I.D. and O.D.
2. Slide the nut and then the ferrule onto the tube. Make sure the tapered end of ferrule points toward the nut.



3. Lubricate all mating surfaces of nut, ferrule and body with a heavy lubricant such as Aeroquip Lube Oil.
4. Place end of tube against standard S.A.E. 37° flare body.
5. Slide the ferrule and nut against body and tighten the nut onto the body "hand tight." Mark the nut in relation to the body for location.



6. Hold tube against body and tighten nut as follows:
   a. 1 1/4 turns on tube size 3/16" (dash size -3) through tube size 5/8" (dash size -10).
   b. 1 1/2 turns on tube size 3/4" (dash size -12) through tube size 2" (dash size -32).

Storage

The Boll Buggy should be stored in an enclosed building to prevent hoses, cylinders, and metal surfaces from deteriorating due to weather exposure.

Recommended storage procedure follows:

1. Elevate frame so tires will clear ground.

   NOTE: Support frame securely so there is no danger of it falling.

2. Remove clamps from hydraulic hoses going to the tractor and elevate them above the front hydraulic cylinder to prevent oil from seeping out of quick couplers while not in use.

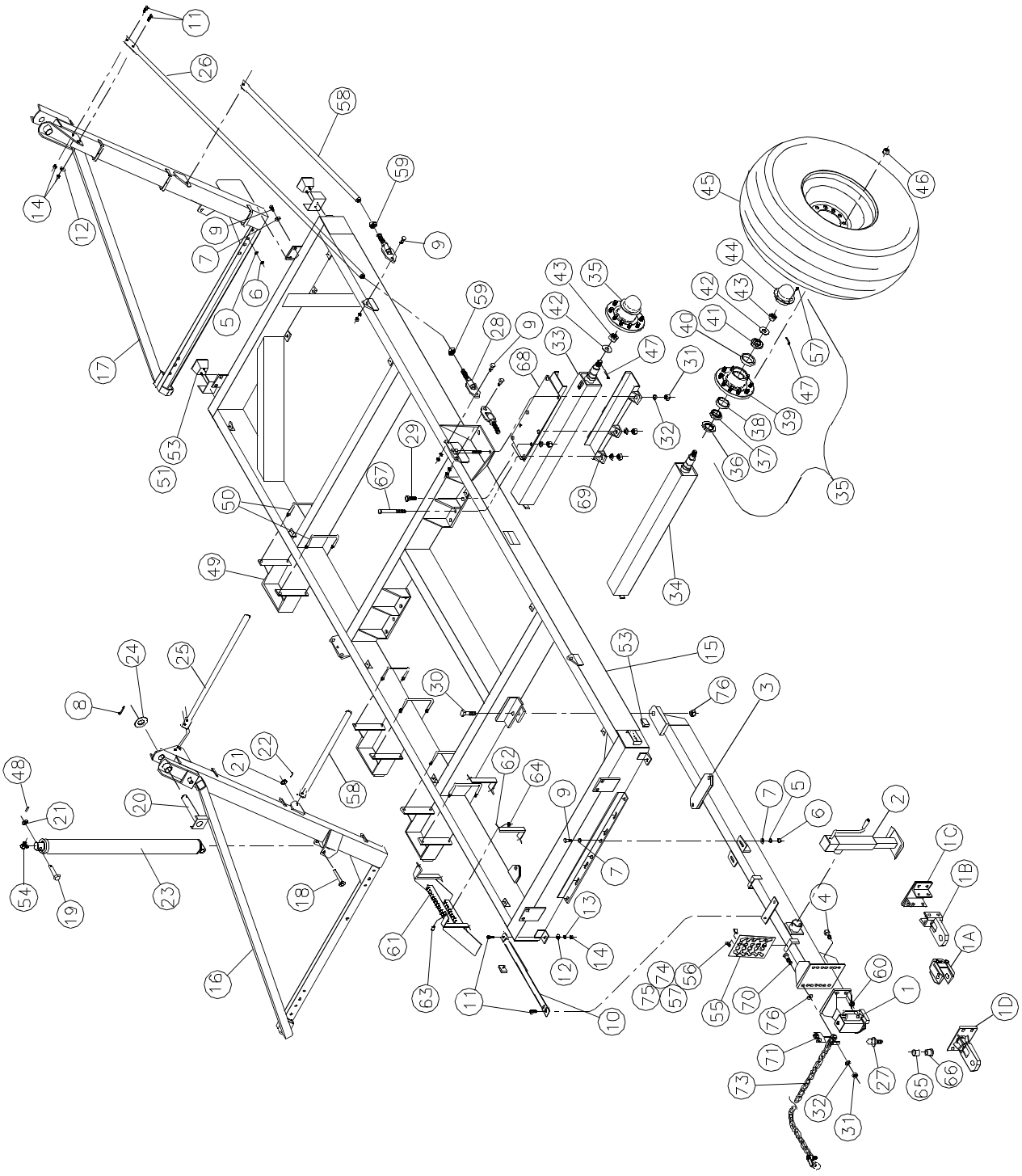
NOTE: When preparing to use machine after storage, check for any oil leaking. If there is any indication of oil leaking from fittings, hoses, or cylinders the hydraulic system should be purged prior to raising the basket. (Follow instructions in manual for hydraulic system purging *-pages 4-5*.)

Trouble Shooting

NOTE: Step Number 1 in all cases is to familiarize yourself with the information in the owner's manual pertaining to assembly, operation, lubrication, and maintenance.

Trouble	Possible Cause	Possible Remedy
Basket fails to raise.	◊ Hoses not correctly coupled to tractor.	Connect or insert quick coupler correctly.
	◊ Tractor system pressure not sufficient.	Check tractor system pressure.
	◊ Tractor hydraulic oil level is low.	Fill per purging instructions - *page 4-5.*
Basket fails to raise evenly.	◊ System not purged of all air.	Purge system as described in operation section.
	◊ Hose is pinched or has a restriction.	Replace hose and re-route so that it is clear of pinch point.
	◊ Defective cylinder due to worn or bad piston seals.	Repair cylinders inspecting all parts for wear. Replace seal kit.
Cotton will not dump out when basket is raised.	◊ Dumping area sloping severely to right.	Move to level area for dumping.

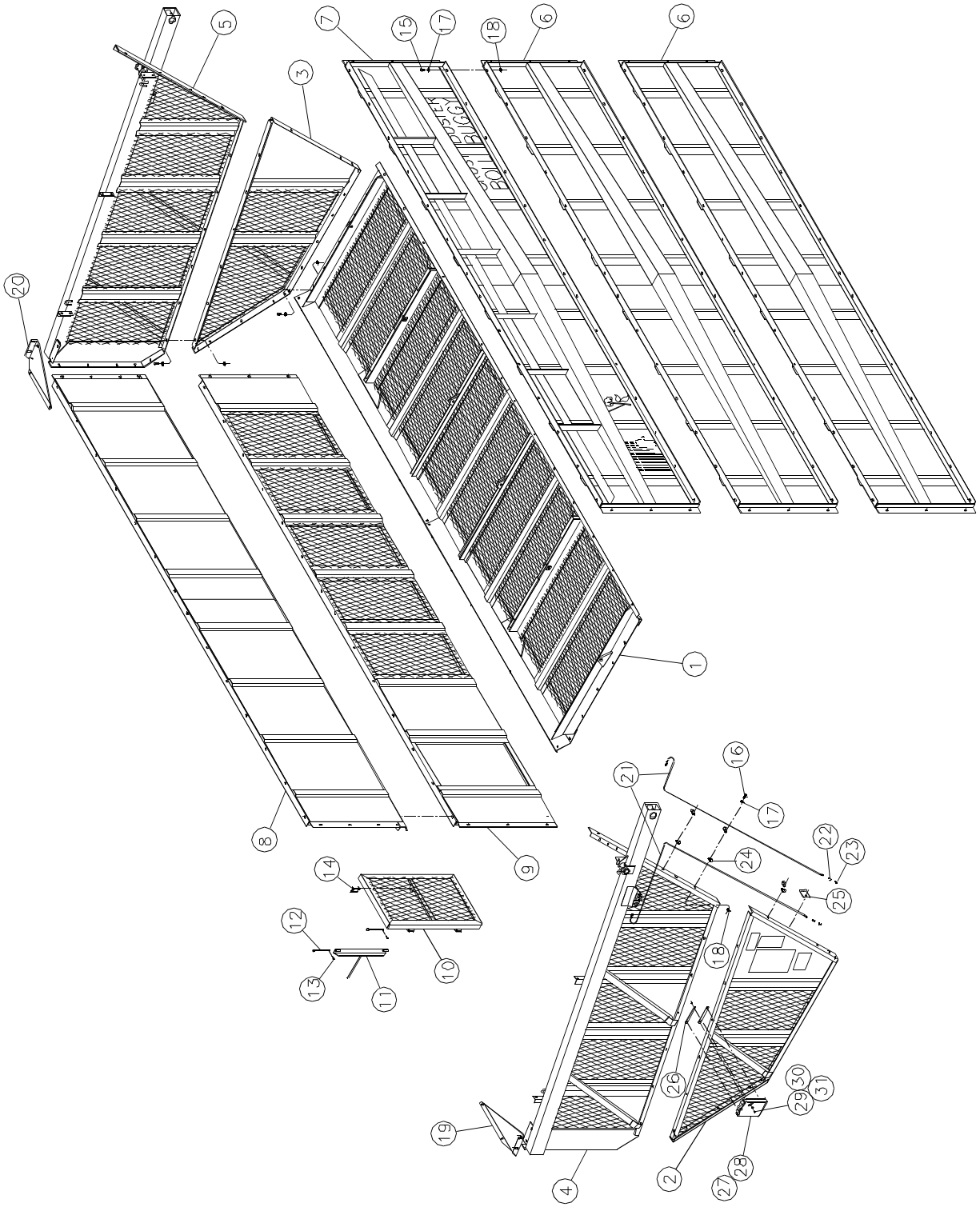
Main Frame
Repair Parts



Main Frame
Repair Parts

Item	Qty	Part No.	Description
1	1	873836	Coupler - 2 5/16"
1 A		942813	Hitch
1 B		964601	Swivel Mono Hitch
1 C		967869	Converter for 964601
1 D		967976	Swivel Mono Hitch
2	1	530998	Jack
3	1	967760	Tongue
4	4	01172600	HHCS 1" x 2.5"
5	14	330332	Washer 3/4" Lock
6	14	330290	Nut 3/4" Hex
7	12	330340	Washer 3/4" Flat
8	2	335802	Cotter Pin 5/16" x 2 ½"
9	14	335125	HHCS 3/4" x 2"
10	2	147280	Tongue Brace
11	8	01146000	HHCS 5/8" x 1 3/4"
12	4	330183	Washer 5/8" Flat
13	4	330878	Washer 5/8" Lock
14	4	330571	Nut 5/8" Hex
15	1	967786	Main Frame
16	1	965152	A-Frame Front
17	1	965137	A-Frame Rear
18	2	942409	Bottom Cylinder Pin
19	2	337956	Top Cylinder Pin
20	2	945188	Basket Pivot Pin
21	4	335786	Washer 1" Flat SAE
22	2	00055400	Roll Pin 3/16" x 2"
23	2	466581	Cylinder 4" x 60"
24	2	333831	Washer 2" Flat
25	1	966663	Front Cross Brace
26	1	966671	Rear Cross Brace
27	1	606343	Ball Hitch 2 5/16"
28	4	965129	End Adjustment
29	4	332957	HHCS 1" x 2"
30	1	338319	HHCS 1 1/4" x 5"
31	17	330381	Nut 1" Hex
32	17	330399	Washer 1" Lock
33	2	872945	Adjustable Axle Assembly (Includes #34,35,42,43 & 47)
34	2	966564	Axle w/3 3/8" spindle
35	2	551358	Hub 10 Bolt (873) Complete (Includes #36-44, #46-47)
36	2	403428	Grease Seal
37	2	403410	Inner Bearing
38	2	403402	Inner Cup
39	2	551366	Hub (873) w/cups only (Includes Items #40 & 41)
40	2	402784	Outer Cup
41	2	402800	Outer Bearing
42	2	402842	Spindle Washer
43	2	402859	Spindle Nut 1 1/4" Castle
44	2	402818	Dust Cap
45	2	862888	Tire & Rim 18.4-26 12 Ply 10 Bolt Rim
		530972	Tire Only 18.4-26 12P
		530709	Rim 10 Bolt 16-26 11.25BC
46	20	403352	Wheel Nut .750-16 Flange
		337899	Replacement Bolt 3/4-16 x 2 13/16"
47	2	330530	Cotter Pin 1/4" x 2 1/4"
48	2	336248	Roll Pin 3/8" x 2½"
49	3	965228	Weight Bracket
50	6	337931	U-bolt 5/8"
51	2	262550	Light Casing
52	1	607358	Wiring Harness
53	2	606970	Armored Clearance Light
	1	606954	Right Tail Light Only
	1	606962	Left Tail Light Only
54	2	03392800	Adapter 90D 1/8" NPTM x 1/8" NPTF
55	1	965236	Hose Rack
56	10	00613000	Hose Clamp 5/8"
57	5	01010800	HHCS 5/16" x 1"
58	2	965145	Cross Brace
59	4	01486000	Nut 1 1/8" Hex
60	4	330597	Nut 1" Nylock
61	1	965871	Door Step
62	2	965897	Door Step Bracket
63	4	01147800	HHCS ½" x 1½"
64	4	335836	Nut ½" Flange Lock
65	1	148957	Hitch Ball Spacer w/#152892 For 2" drawbar
66	1	152892	Hitch Ball Spacer For 1½" drawbar
67	12	338020	HHCS 1" x 10"
68	2	965624	Top Clamp
69	2	965632	Bottom Clamp
70	1	334789	HHCS 1" x 3½"
71	3	335166	Mach Bush 1" x 10 ga
72			
73	1	433946	Safety Chain 21,000#
74	5	330845	Lock Washer 5/16"
75	5	330811	Hex Nut 5/16"
76	1	330407	Washer 1" Flat
77	1	338228	Nut 1 1/4" Nylock

Basket
Repair Parts

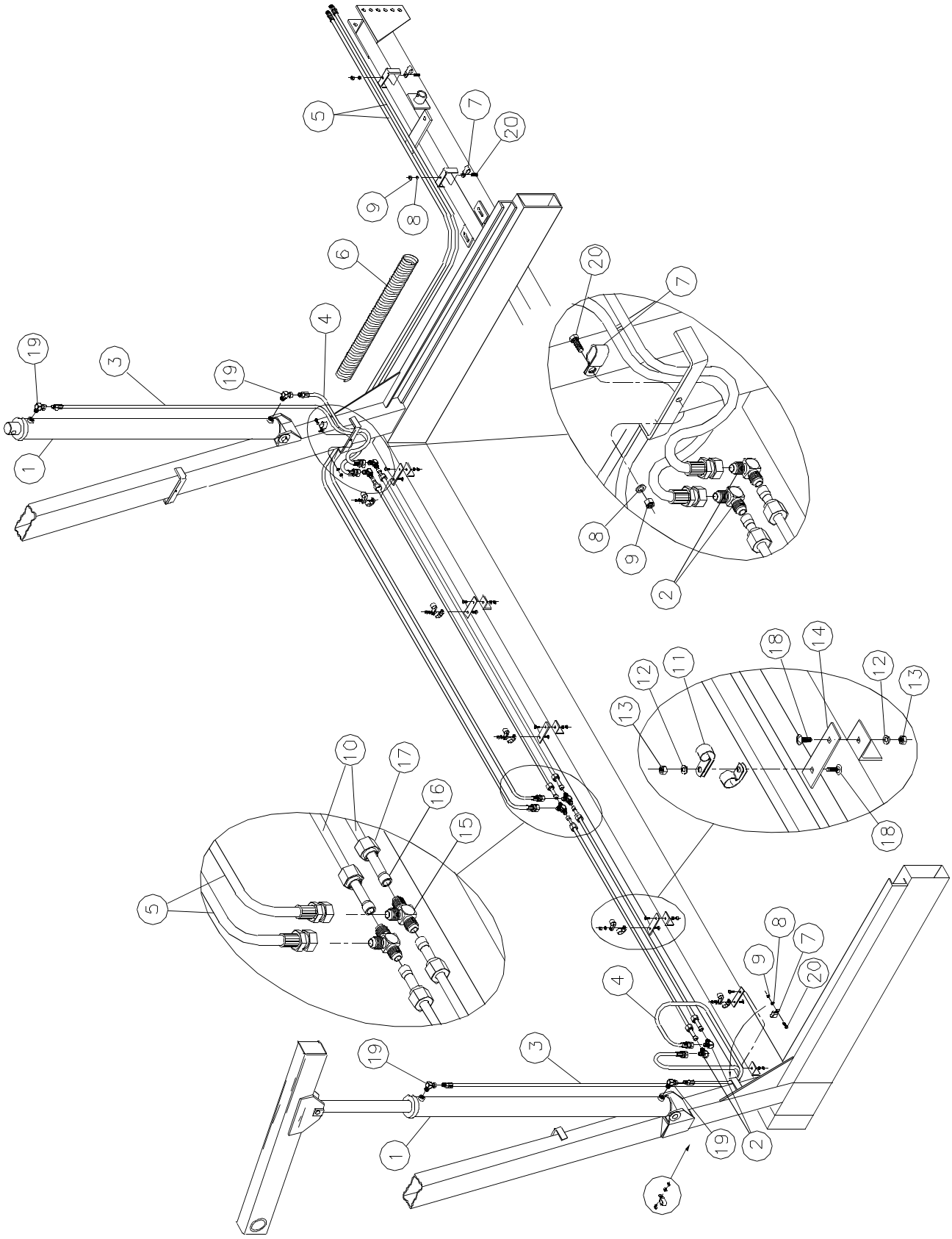


Basket
Repair Parts

Item	Qty	Part No.	Description
1	1	966549	Floor Panel
2	1	964163	Bottom End Panel -Front
3	1	964171	Bottom End Panel -Rear
4	1	965087	Top End Panel -Front
5	1	965079	Top End Panel -Rear
6	2	966556	Unload Side Panel
7	1	872937	Top Unload Side Panel
8	1	966580	Top Load Side Panel
9	1	966721	Door Panel
	1	872978	Door Panel Assembly Includes #9-14)
10	1	955401	Access Door
11	1	955419	Door Latch
12	4	955344	Door & Latch Hinge Pin
13	4	330936	Cotter Pin 1/8" x 1"
14	1	00233700	Wire Lock Pin
15	138	01180900	HHCS ½" x 1 1/4"
16	6	331926	HHCS ½" x 2"
17	134	330159	Washer ½" Flat
18	134	335836	Nut ½" Flange Lock
19	1	265124	Corner Gusset -Front
20	1	265132	Corner Gusset -Rear
21	4	469494	Grease line 1/8" x 112"
22	4	472001	Pipe Elbow 1/8"
23	4	02738300	Zerk 1/8" NPTM
24	12	01059500	Clamp 5/16"
25	2	264192	Zerk Mounting Plate
26	2	231647	Cannister Mount Plate
27	1	607283	Owners Manual
28	1	607416	Manual Pak
29	4	01057900	HHCS 1/4" x 3/4"
30	4	02016400	Flat Washer 1/4"
31	4	330522	Nylock 1/4"

Basket Hydraulics

Repair Parts

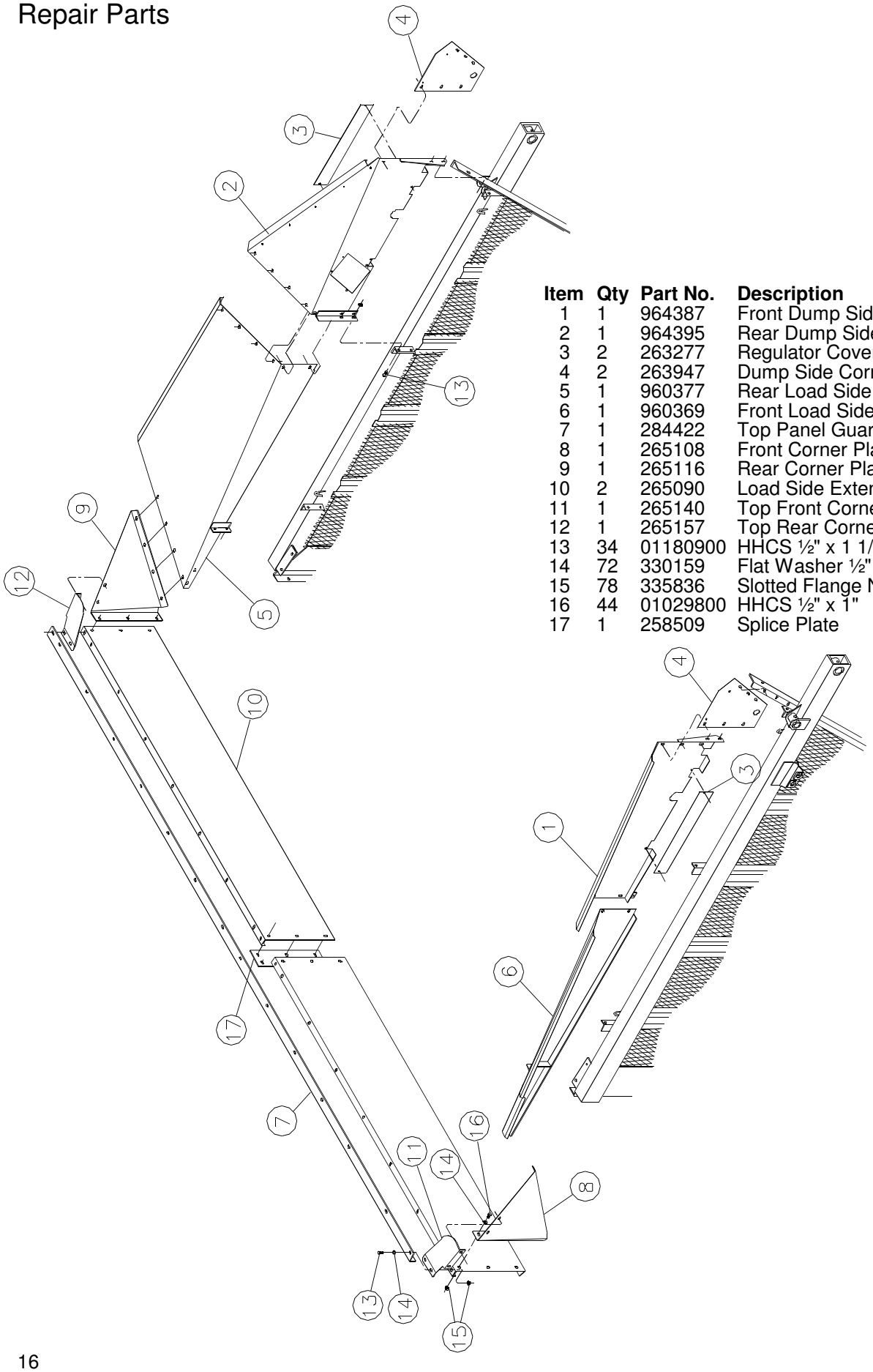


Basket Hydraulics
Repair Parts

Item	Qty	Part No.	Description
1	2	466581	Cylinder 4" x 60"
2	4	00618900	Adapter 90° 7/8" JICM / 7/8" JICM
3	2	468751	Hydraulic Hose 3/8" x 94" 3/8 NPTM / 7/8 JICFSw
4	2	468744	Hydraulic Hose 3/8" x 32" 3/8 NPTM / 7/8 JICF Sw
5	2	471409	Hydraulic Hose 3/8" x 302" 3/4 MOR / 7/8 JICF Sw
6	3'	603001	Cable Wrap
7	4	00913400	Hose Clamp 5/8" Double
8	4	330043	Washer 3/8" Lock
9	4	330035	Nut 3/8" Hex
10	4	153155	Hydraulic Line 5/8" x 13ga x 114"
11	12	00613000	Clamp 5/8"
12	12	330845	Washer 5/16" Lock
13	12	330811	Nut 5/16" Hex
14	6	212571	Clamp Strap
15	2	00614800	Adapter Tee 7/8" JICM
16	8	02096600	Tube Sleeve
17	8	02099000	Tube Nut
18	12	01047000	Carriage Bolt 5/16" x 1"
19	4	463539	Adapter 90° ½" NPTM/ 3/8" NPTF Sw
20	4	01017300	HHCS 3/8" x 1"

Basket Extension

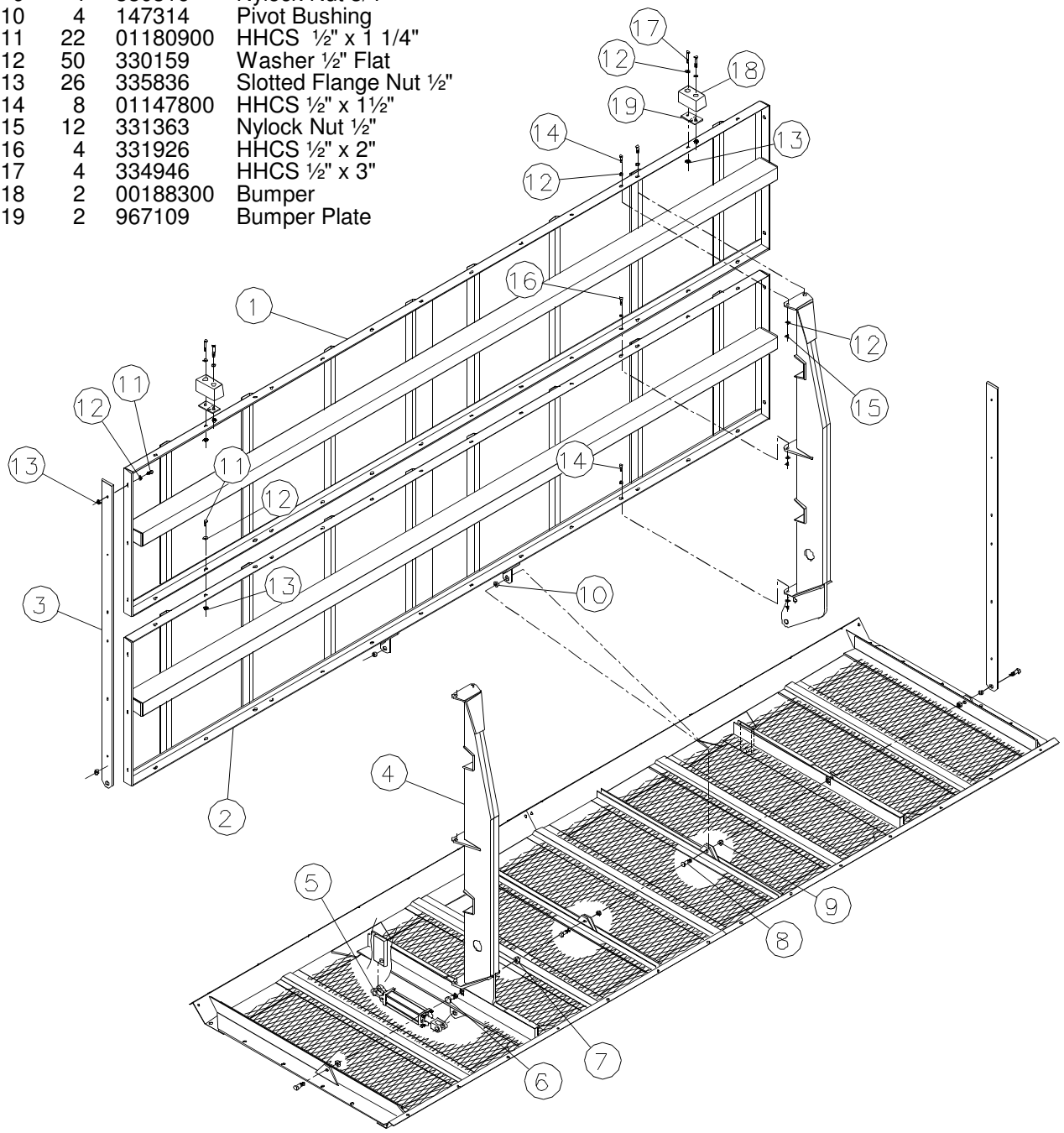
Repair Parts



Item	Qty	Part No.	Description
1	1	964387	Front Dump Side Extension
2	1	964395	Rear Dump Side Extension
3	2	263277	Regulator Cover Plate
4	2	263947	Dump Side Corner Plate
5	1	960377	Rear Load Side Extension
6	1	960369	Front Load Side Extension
7	1	284422	Top Panel Guard
8	1	265108	Front Corner Plate
9	1	265116	Rear Corner Plate
10	2	265090	Load Side Extension
11	1	265140	Top Front Corner Plate
12	1	265157	Top Rear Corner Plate
13	34	01180900	HHCS ½" x 1 1/4"
14	72	330159	Flat Washer ½"
15	78	335836	Slotted Flange Nut ½"
16	44	01029800	HHCS ½" x 1"
17	1	258509	Splice Plate

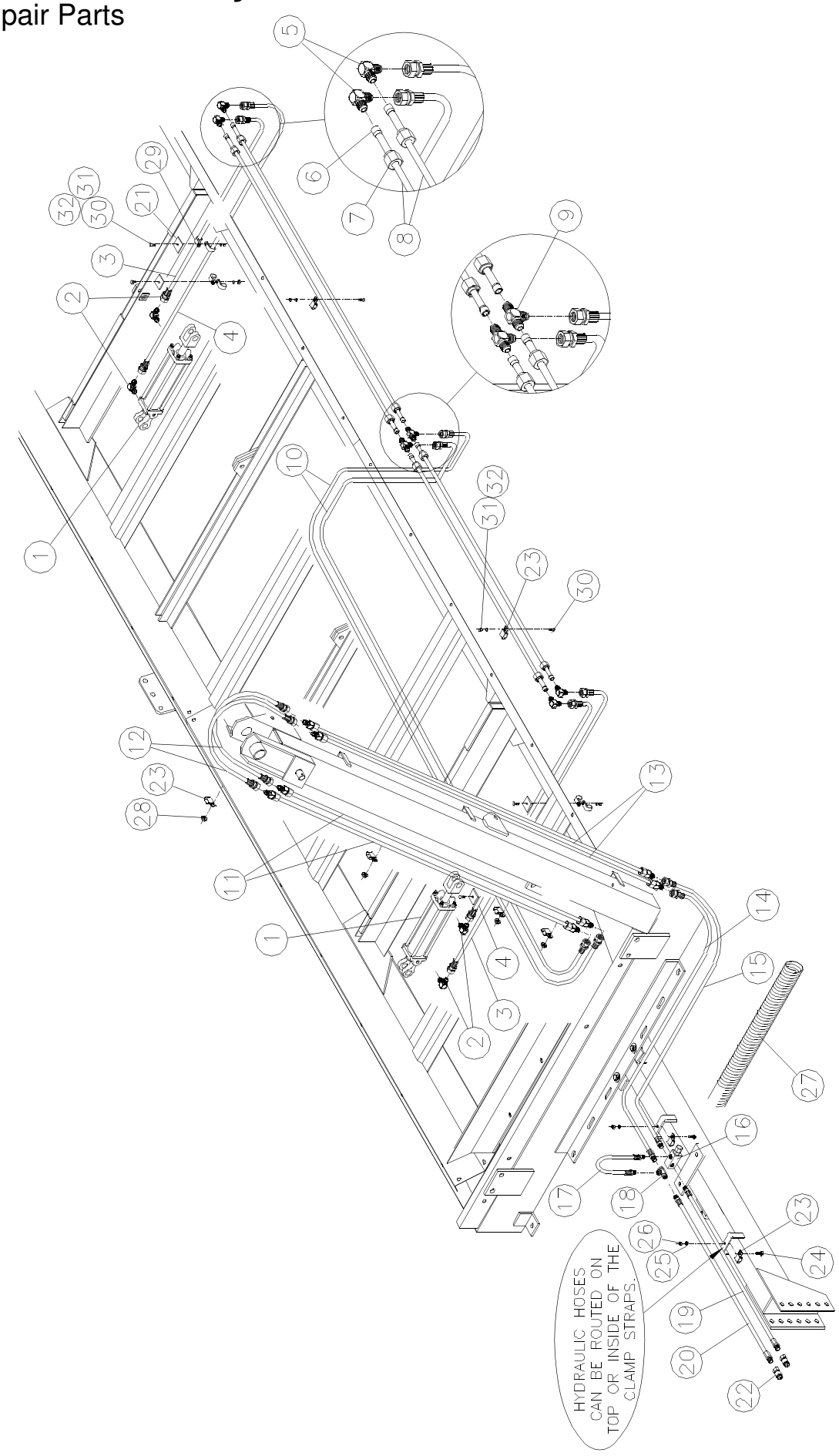
Packer Panel
Repair Parts

Item	Qty	Part No.	Description
1	1	966952	Lower Packer Panel
2	1	966929	Top Packer Panel
3	2	962514	Frame Plate
4	2	966937	Packer Arm
5	2	472399	Cylinder 3½" x 12"
6	2	334987	HHCS 1" x 3"
7	2	330597	Nylock Nut 1"
8	4	335174	HHCS 3/4" x 2½"
9	4	330316	Nylock Nut 3/4"
10	4	147314	Pivot Bushing
11	22	01180900	HHCS ½" x 1 1/4"
12	50	330159	Washer ½" Flat
13	26	335836	Slotted Flange Nut ½"
14	8	01147800	HHCS ½" x 1½"
15	12	331363	Nylock Nut ½"
16	4	331926	HHCS ½" x 2"
17	4	334946	HHCS ½" x 3"
18	2	00188300	Bumper
19	2	967109	Bumper Plate



Packer Panel Hydraulics

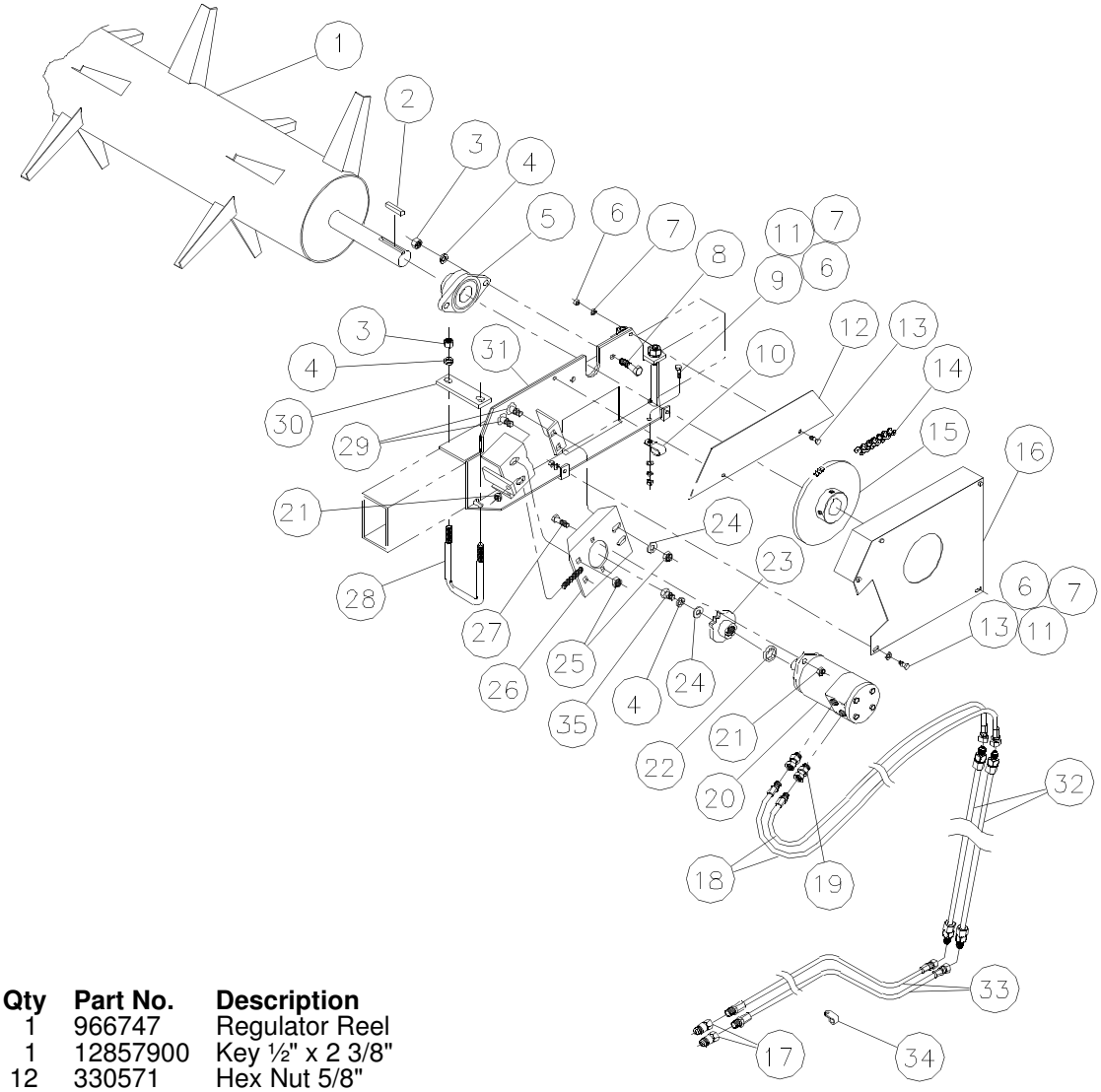
Repair Parts



Packer Panel Hydraulics
Repair Parts

Item	Qty	Part No.	Description
1	2	472399	Cylinder 3½" x 12"
2	4	466862	Adapter 90° 3/" MOR/ 3/4" JICM w/restrictor
3	2	472167	Hose 3/8" x 65" 3/4" JICF Sw/ 7/8" JICF Sw
4	2	472175	Hose 3/8" x 50" 3/4" JICF Sw/ 7/8" JICF Sw
5	4	00618900	Adapter 90° 7/8"-14 JICM
6	8	02096600	Tube Sleeve 5/8"
7	8	02099000	Tube Nut 5/8"
8	4	151837	Hyd Line 5/8"- 13ga x 66"
9	2	00614800	Adapter Tee 7/8" JICM
10	2	472191	Hose 3/8" x 124" 7/8" JICF Sw
11	2	873091	Hyd Tube 5/8" x 112"
12	2	472183	Hose 3/8" x 45" 7/8" JICF Sw
13	2	82388000	Hyd Tube 5/8" x 88"
14	1	471821	Hyd Hose 3/8" x 93" 7/8" JICF Sw/ 3/8" NPTM
15	1	471797	Hyd Hose 3/8" x 93" 7/8" JICF Sw/ ½" NPTM
16	1	466680	Hyd Relief Valve 1500 PSI
17	1	466631	Hyd Hose 3/8" x 15" 3/8" NPTM/1/2" NPTM
18	1	07795800	Adapter Tee 3/8" NPTF Sw
19	1	466649	Hose 3/8" x 90" ½" NPTM/ 3/4" MOR
20	1	466607	Hose 3/8" x 90" 3/8" NPTM/ 3/4" MOR
21	4	226936	Clamp Plate
22	2	465385	Quick Coupler 3/4" FOR
23	8	00913400	Hose Clamp 5/8" Double
24	2	01017300	HHCS 3/8" x 1"
25	2	330043	Lock Washer 3/8"
26	2	330035	Hex Nut 3/8"
27	3'	603001	Cable Wrap
28	4	335836	Slotted Flange Nut ½"
29	8	00613000	Hose Clamp 5/8" Single
30	6	01047000	Carriage Bolt 5/16" x 1"
31	6	330845	Lock Washer 5/16"
32	6	330811	Hex Nut 5/16"

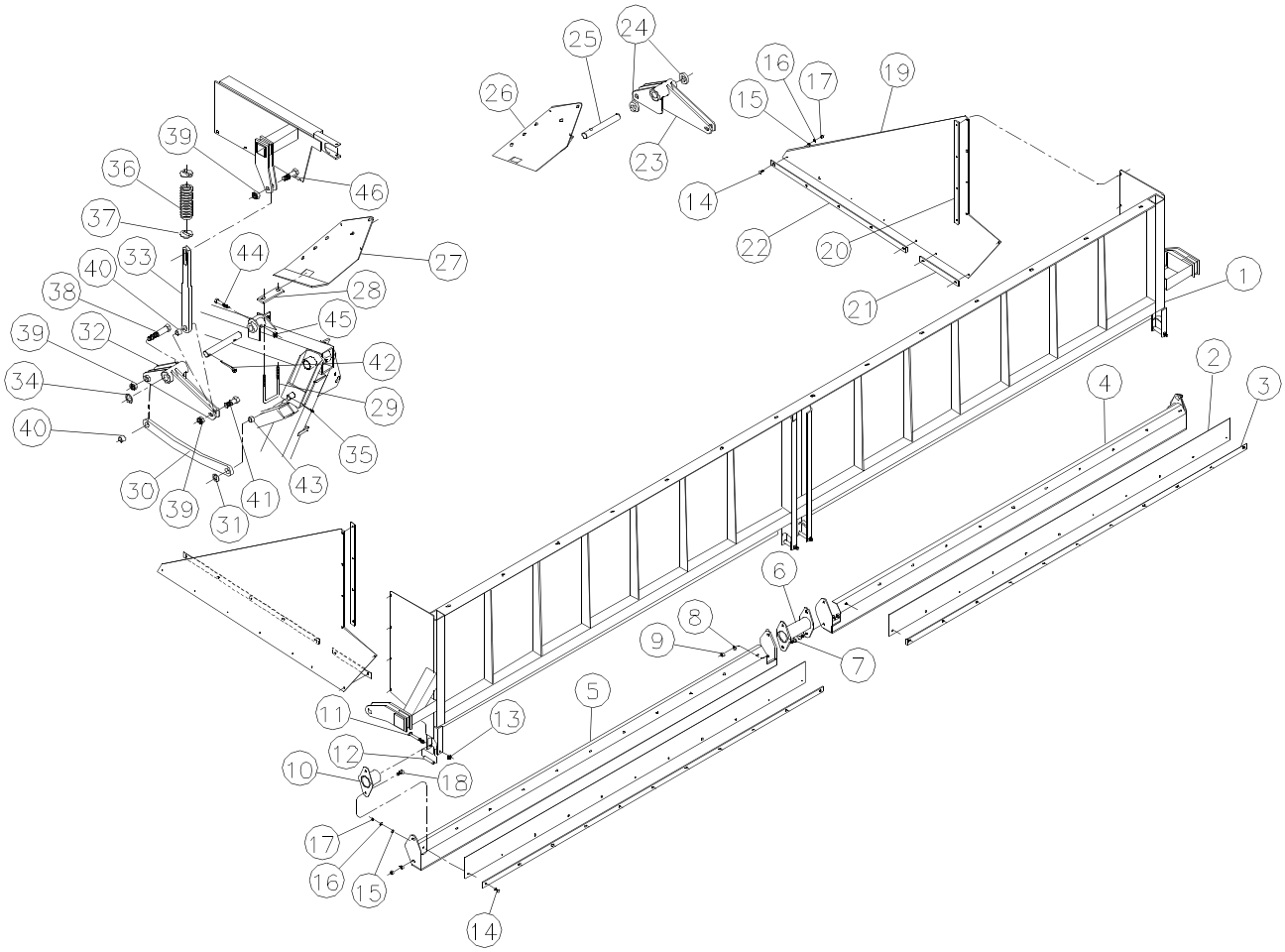
Regulator
Repair Parts



Item	Qty	Part No.	Description
1	1	966747	Regulator Reel
2	1	12857900	Key ½" x 2 3/8"
3	12	330571	Hex Nut 5/8"
4	13	330878	Lock Washer 5/8"
5	2	637405	Bearing Assembly
		03011400	Bearing 1 15/16" 2 Bolt
		337022	Set Screw 3/8-24 x3/8 Cone
6	10	330035	Hex Nut 3/8"
7	10	330043	Lock Washer 3/8"
8	4	06957500	HHCS 5/8" x 2½"
9	6	01158500	HHCS 3/8" 1 1/4"
10	4	00913400	Hose Clamp 5/8" Double
11	10	330894	Flat Washer 3/8"
12	1	257063	Guard Back Plate
13	4	01017300	HHCS 3/8" x 1"
14	1	01322700	Chain #80 x 46 Pitch
15	1	433516	Sprocket #80 30 Tooth 1 15/16" Hub
16	1	870709	Chain Guard Assembly
17	2	465385	Coupler Male x 3/4" FOR
18	2	471987	Hose 3/8" x 82" 7/8" JICF Sw
19	2	00542100	Adapter 45° 7/8" MOR x 7/8" JICM
20	1	472035	Hydraulic Motor
		472831	Seal Kit
21	3	331363	Nylock Nut ½"

Item	Qty	Part No.	Description
22	1	152454	Motor Spacer
23	1	433318	Sprocket #80 10 Tooth 14 Tooth Splined Hub
24	3	330183	Flat Washer 5/8"
25	4	01572700	Nylock Nut 5/8"
26	1	964825	Motor Slide
27	2	335240	HHCS ½" x 1 3/4"
28	4	336495	U-bolt 5/8" x 4 3/16" x 7 7/8"
29	4	00665000	Carriage Bolt 5/8" x 1½"
30	4	208876	U-bolt Bracket
31	1	964585	Regulator Mount Rear
	1	964593	Regulator Mount Front
32	2	82391400	Hyd Tube Assembly 5/8" x 82"
33	2	472621	Hose 3/8" x 176" 7/8" JICF Sw x 3/4" MOR
34	6	00613000	Hose Clamp 5/8"
35	1	338038	HHCS 5/8" x 1" UNF

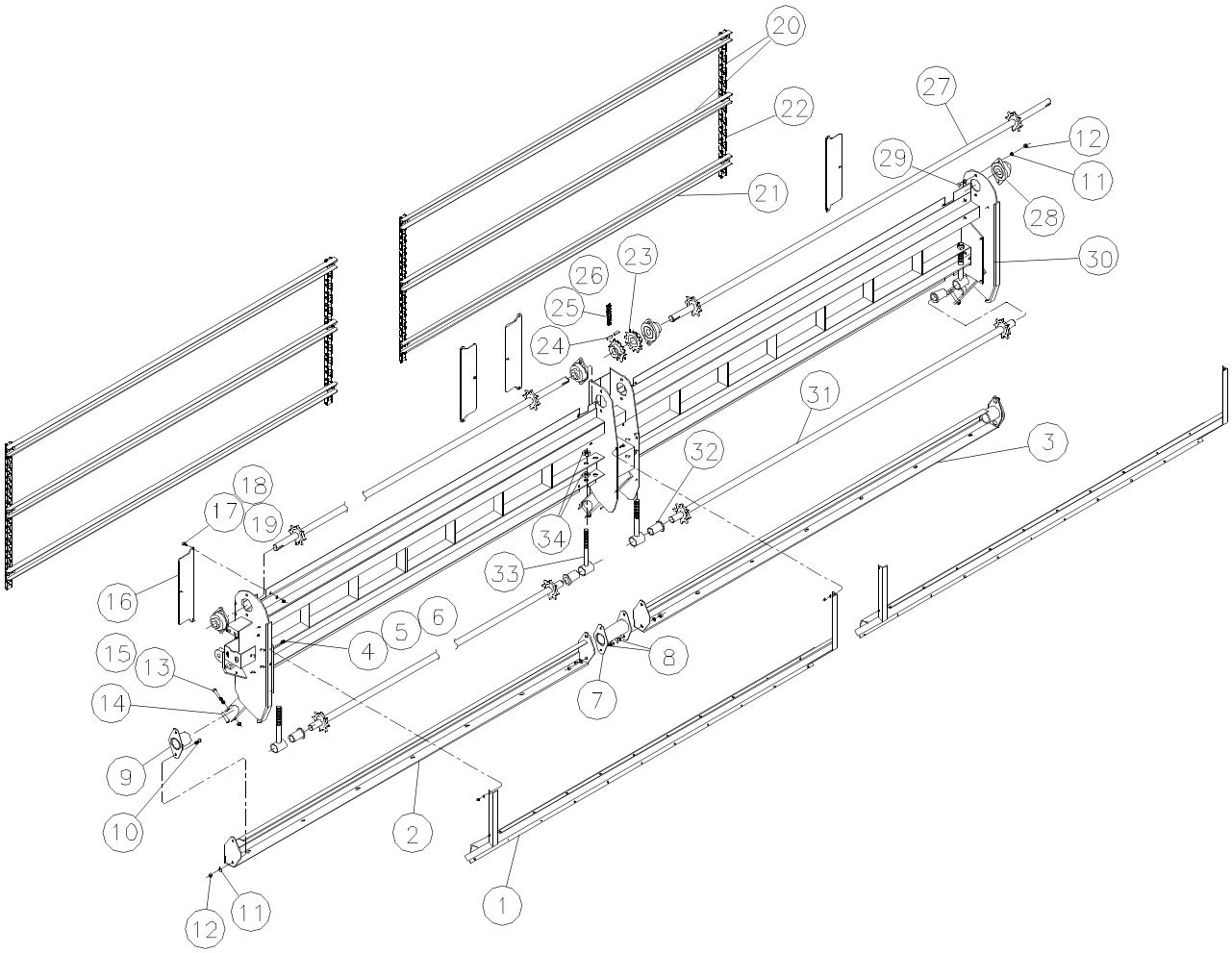
Big Lip
Repair Parts



Item	Qty	Part No.	Description
1	1	966697	Big Lip
2	2	607317	Belt 6" x 112"
3	2	226506	Back Up Strap
4	1	966630	Top Shaft Mount Front
5	1	966622	Top Shaft Mount Rear
6	1	966655	Center Door Pivot
7	4	01136100	Carriage Bolt ½" x 1 1/4"
8	8	330142	Lock Washer ½"
9	8	330134	Hex Nut ½"
10	2	965392	End Door Pivot
11	4	330100	HHCS ½" x 4½"
12	4	152470	Shaft Pin
13	4	331363	Nylock Nut ½"
14	44	01047000	Carriage Bolt 5/16" x 1"
15	44	330852	Flat Washer 5/16"
16	44	330845	Lock Washer 5/16"
17	44	330811	Hex Nut 5/16"
18	4	01212000	Carriage Bolt ½" x 1½"
19	2	606665	Belt
20	2	262543	Belt Back Up Strap Side
21	2	220186	Belt Back Up Strap Front
22	2	211375	Belt Back Up Strap Rear
23	1	871889	Rear Pivot w/Bearings
24	4	403378	Bearing 1½"

Item	Qty	Part No.	Description
25	2	311159	Pivot Pin
26	1	965186	Rear Motor Mount
27	1	965178	Front Motor Mount
28	2	208876	U-bolt Strap
29	2	331355	U-bolt ½" x 4" x 7½"
30	2	225367	Pivot Arm
31	2	335166	Machine Bushing 2 1/4 x 1 ½ ID x 10ga
32	1	871897	Front Pivot w/Bushings
33	2	225466	Slotted Pivot Arm
34	2	336461	Machine Bushing 2 1/4 x 1 1/4 ID x 10 ga
35	2	02154300	Cotter Pin 5/32"
36	2	502336	Spring 2 1/8" ID
37	4	225383	Pivot Arm Washer
38	2	332817	HHCS 1" x 6"
39	6	330597	Nylock Nut 1"
40	4	600213	Bushing 1" x 1 1/4" x 1" HS
41	2	334987	HHCS 1" x 3"
42	2	335802	Cotter Pin 5/16" x 2½"
43	2	601641	Bushing 1" x1 1/4" x3/4" HS
44	2	01116300	HHCS 5/8" x 3½"
45	2	01572700	Nylock Nut 5/8"
46	2	334789	HHCS 1" x 3½"

Chain Door
Repair Parts

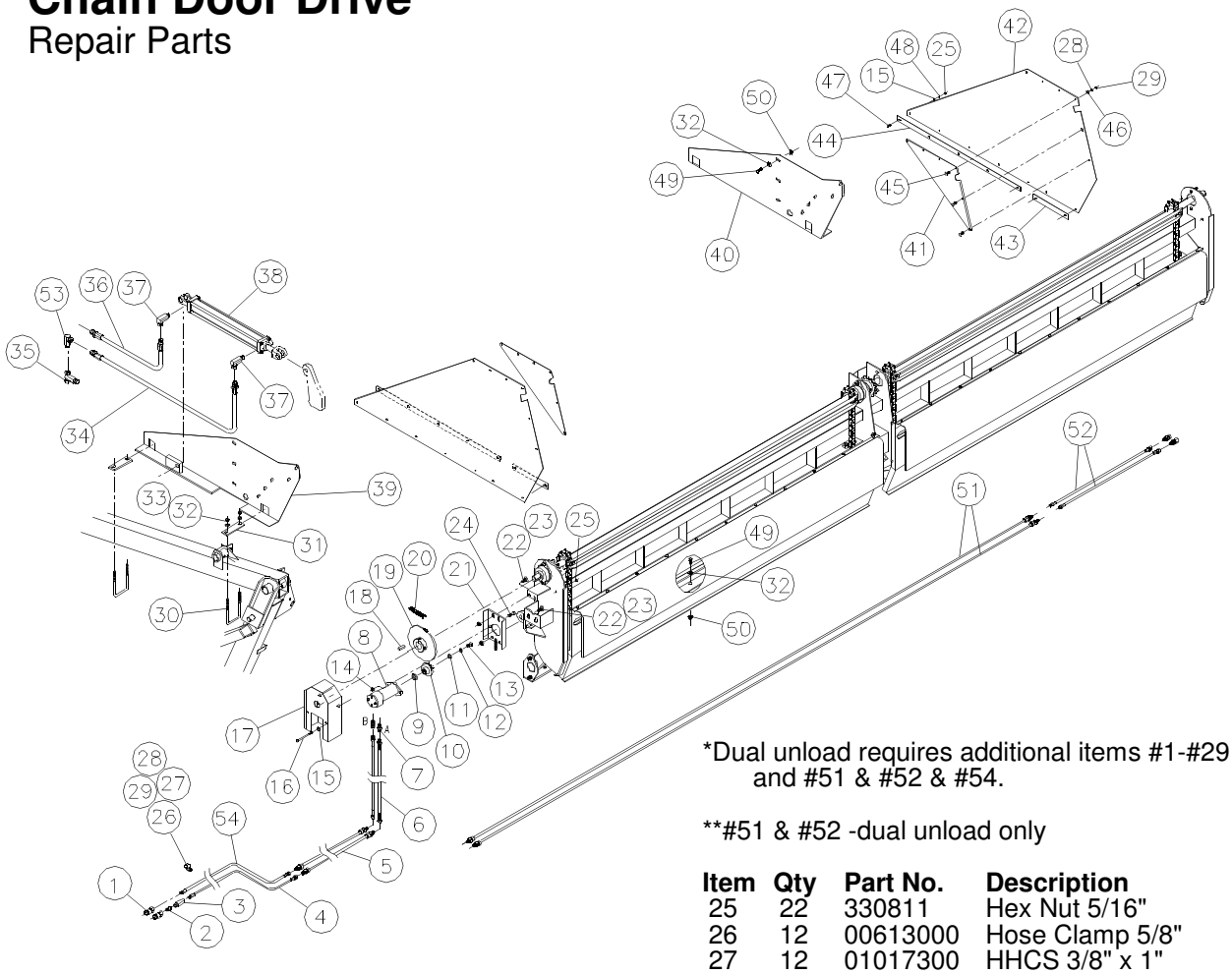


Item	Qty	Part No.	Description
1	2	967968	Cover
2	1	966630	Top Shaft Mount Front
3	1	966622	Top Shaft Mount Rear
4	8	01047000	Carriage Bolt 5/16" x 1"
5	8	330845	Lock Washer 5/16"
6	8	330811	Hex Nut 5/16"
7	1	966655	Center Door Pivot
8	4	01136100	Carriage Bolt ½" x 1 1/4"
9	2	965392	End Door Pivot
10	4	01212000	Carriage Bolt ½" x 1½"
11	16	330142	Lock Washer ½"
12	16	330134	Hex Nut ½"
13	4	330100	HHCS ½" x 4½"
14	4	152470	Pivot Pin
15	4	331363	Nylock Nut ½"
16	4	265231	Wear Strip
17	12	330654	Carriage Bolt 3/8" x 1"
18	12	330043	Lock Washer 3/8"

Item	Qty	Part No.	Description
19	12	330035	Nylock Nut 3/8"
20	2	873018	Chain & Slat Assembly Includes #21 & #22
21	12	226399	Chain Slat Only
22	4	433730	Chain Only CA550 x 38 P
23	2	433433	Sprocket Coupler #80 16T
24	2	19183300	Key 3/8" x 1½"
25	1	433391	Chain #80 x 15 Pitch
26	1	00232900	Connector Link #80 Chain
27	2	966838	Top Shaft
28	4	03103900	Bearing 1½" 2 bolt Flange
29	8	331926	HHCS ½" x 2"
30	1	966846	Chain Door
31	2	966820	Bottom Shaft
32	4	402677	Bushing 1½" UHMW
33	4	963702	Take UP
34	8	332288	Jam Nut 1"

Chain Door Drive

Repair Parts

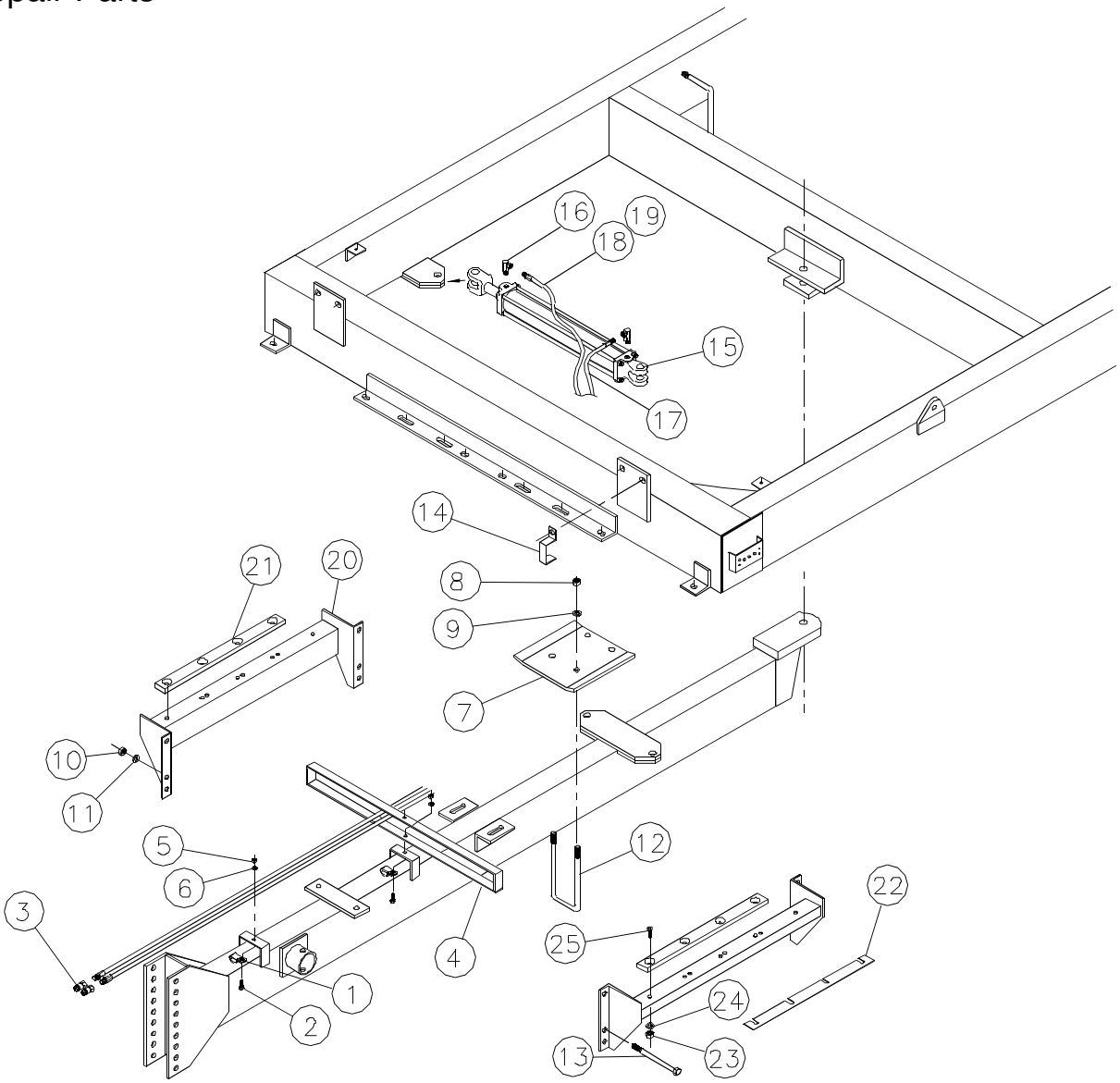


*Dual unload requires additional items #1-#29 and #51 & #52 & #54.

**#51 & #52 -dual unload only

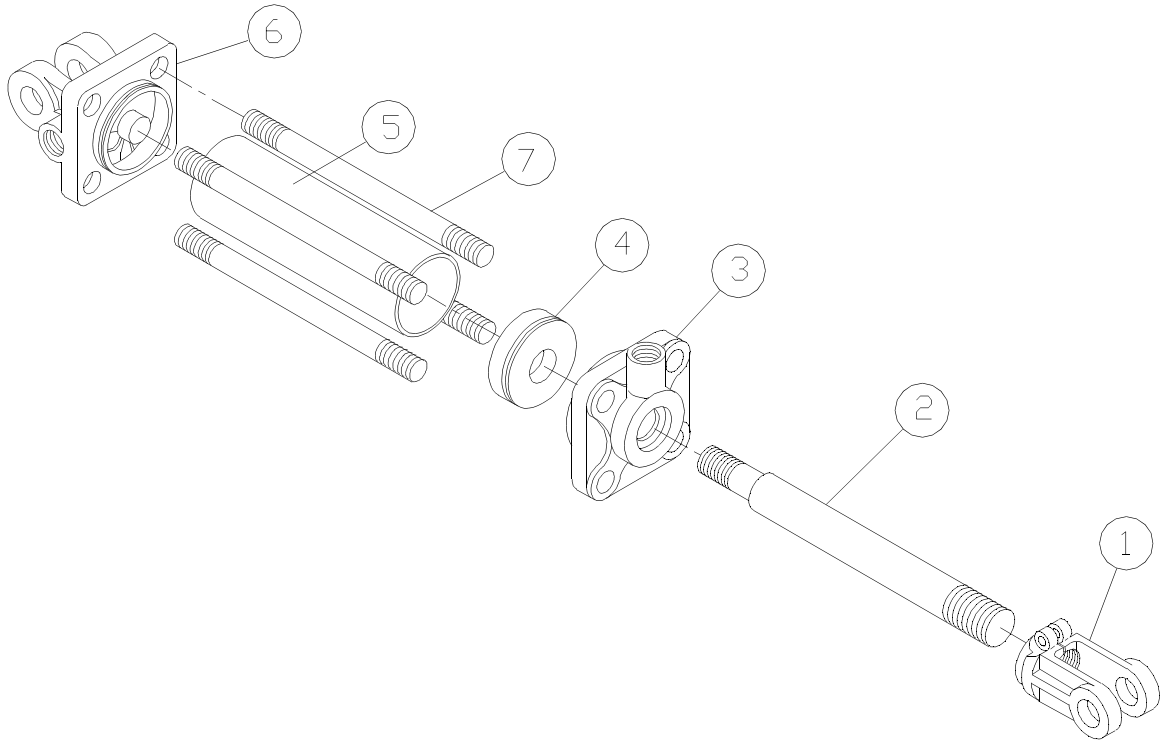
Item	Qty	Part No.	Description
1	2	465385	Coupler 3/4" FOR
2	1	466912	Adapter Straight 3/4" MOR / ½" MP
3	1	468363	Check Valve
4	1	471805	Hose 3/8" x 176" 7/8" JICF Sw/ ½" MP
5	2	82391400	Hyd Tube 5/8" x 82"
6	2	471987	Hose 3/8" x 82" 7/8" JICF Sw
7	2	00542100	Adapter 45° 7/8" MOR/ 7/8" JICM
8	1	472035	Hydraulic Motor
		472381	Seal Kit
9	1	152454	Motor Spacer
10	1	433318	Sprocket #80 10T 14T Splined Hub
11	1	330183	Flat Washer 5/8"
12	1	330878	Lock Washer 5/8"
13	1	338038	HHCS 5/8" x 1" UNF
14	2	331363	Nylock Nut ½"
15	22	330852	Flat Washer 5/16"
16	2	337535	HHCS 5/16" x 5½"
17	1	966861	Chain Guard
18	1	19183300	Key 3/8" x 1½"
19	1	433458	Sprocket #80 20T 1½" Hub
20	1	433748	Chain #80 x 34 Pitch
21	1	964825	Motor Slide
22	4	00665000	Carriage Bolt 5/8" x 1½"
23	4	01572700	Nylock Nut 5/8"
24	2	335240	HHCS ½" x 1 3/4"
25	22	330811	Hex Nut 5/16"
26	12	00613000	Hose Clamp 5/8"
27	12	01017300	HHCS 3/8" x 1"
28	18	330043	Lock Washer 3/8"
29	18	330035	Hex Nut 3/8"
30	4	331355	U-bolt ½" x 4" x 7½"
31	4	208876	U-bolt Strap
32	34	330159	Flat Washer ½"
33	8	330134	Hex Nut ½"
34	2	468298	Hose 3/8" x 74" 3/8" MP
35	4	463752	Adapter Tee½"NPTM/ 3/8"NPTF Sw (2)
36	2	468306	Hose 3/8" x 140" 3/8" MP
37	4	463539	Adapter 90° ½" NPTM/3/8" NPTF Sw
38	2	462127	Cylinder 3" x 20"
39	1	966903	Cylinder Valve Mount Front
40	1	966895	Cylinder Valve Mount Rear
41	2	225151	Belt Back Up Plate
42	2	607325	Belt
43	2	220186	Front Back Up Strap
44	2	211375	Rear Back Up Strap
45	6	335919	Carriage Bolt 3/8" x 1 1/4"
46	6	330894	Flat Washer 3/8"
47	20	01047000	Carriage Bolt 5/16" x 1"
48	20	330845	Lock Washer 5/16"
49	26	01180900	HHCS ½" x 1 1/4"
50	26	335836	Slotted Flange Nut ½"
**51	2	82386400	Hyd Tube 5/8" x 209"
**52	2	472209	Hose 3/8" x 32" 7/8 JICFSw
53	2	600080	Adapter 45D 3/8NPTM/ 3/8NPTFSw
54	1	466912	Hose 3/8" x 176" 3/4"MOR/7/8" JICFSw

Swing Hitch
Repair Parts



Item	Qty	Part No.	Description
1	4	00913400	Hose Clamp 5/8" Double
2	4	01017300	HHCS 3/8" x 1"
3	2	465385	Male Coupler 3/4" MOR
4	1	967349	Hose Holder
5	4	330035	Nut 3/8" Hex
6	4	330043	Washer 3/8" Lock
7	1	963561	Clamp
8	4	330290	Nut 3/4" Hex
9	4	330332	Washer 3/4" Lock
10	4	330571	Hex Nut 5/8"
11	4	330878	Washer 5/8" Lock
12	2	338012	U-Bolt 3/4" 4x11
13	4	332007	HHCS 5/8" x 5½"
14	1	18163600	Hose Bracket
15	1	462127	Hyd Cylinder 3 x 20
16	2	463539	Adapter 90° ½" NPTM / 3/8" NPTF
17	1	468702	Hose 3/8" x 142½" 3/8" NPTM/ 3/4" MOR
18	1	468710	Hose 3/8" x 175½" 3/8" NPTM/ 3/4" MOR
19	5'	603001	Hose Wrap
20	2	963595	Hitch Slide
21	2	571356	Nylon Wear Pad
22	4	262592	Shim
23	8	330134	Nut ½" Hex
24	8	330142	Washer ½" Lock
25	8	335661	Screw ½" x 1½" Flat Head

Hydraulic Cylinders
Repair Parts

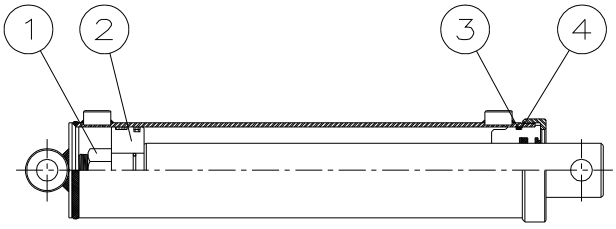


#462127
Chain Dump & Swing Hitch Cylinder - 3" x 20"

Item	Qty	Part No.	Description
1	1	461483	Rod Clevis
2	1	460931	Rod
3	1	460881	Head
4	1	460964	Piston
5	1	460998	Tube
6	1	461038	Base
7	4	461046	Tie Rod
	1	461079	Seal Kit

#472399
Packer Panel Cylinder - 3½" x 12"

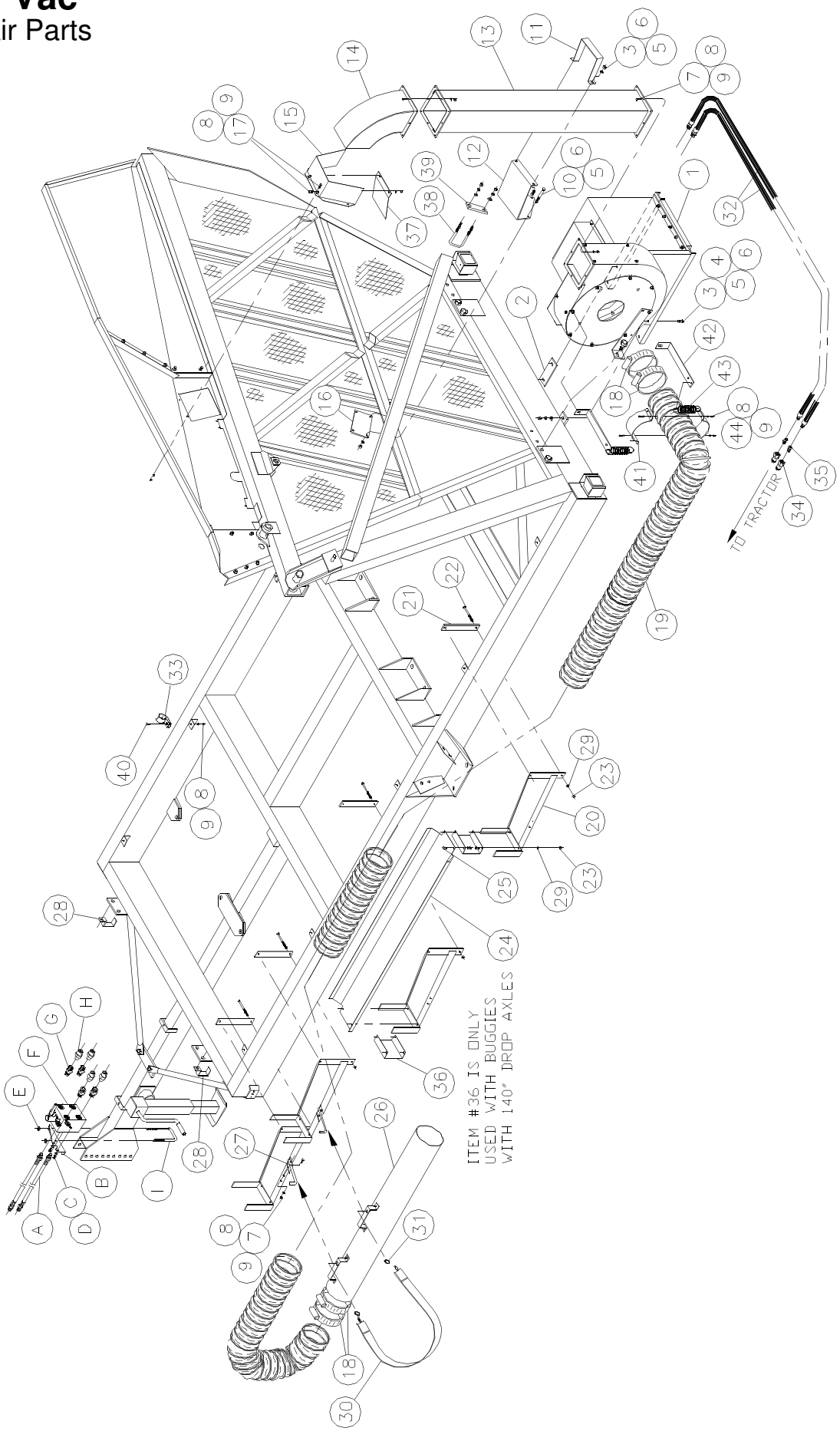
Item	Part No.	Description
1	472977	Clevis
2		Rod
3		Head
4	464479	Piston
5		Tube
6		Base
7		Tie Rod
	463984	Seal Kit



#466581
Basket Lift Cylinder - 4" x 60"

Item	Part No.		Description
1	471136 C	467159 D	Piston
2	471102 C	467167 D	Gland
3	471110 C	467175 D	Barrel
4	471128 C	467183 D	Rod
5	461285 C	467191 D	Lock Nut
6	471144 C	467209 D	Collar
7	470625 C	467217 D	Seal Kit

Boll Vac
Repair Parts

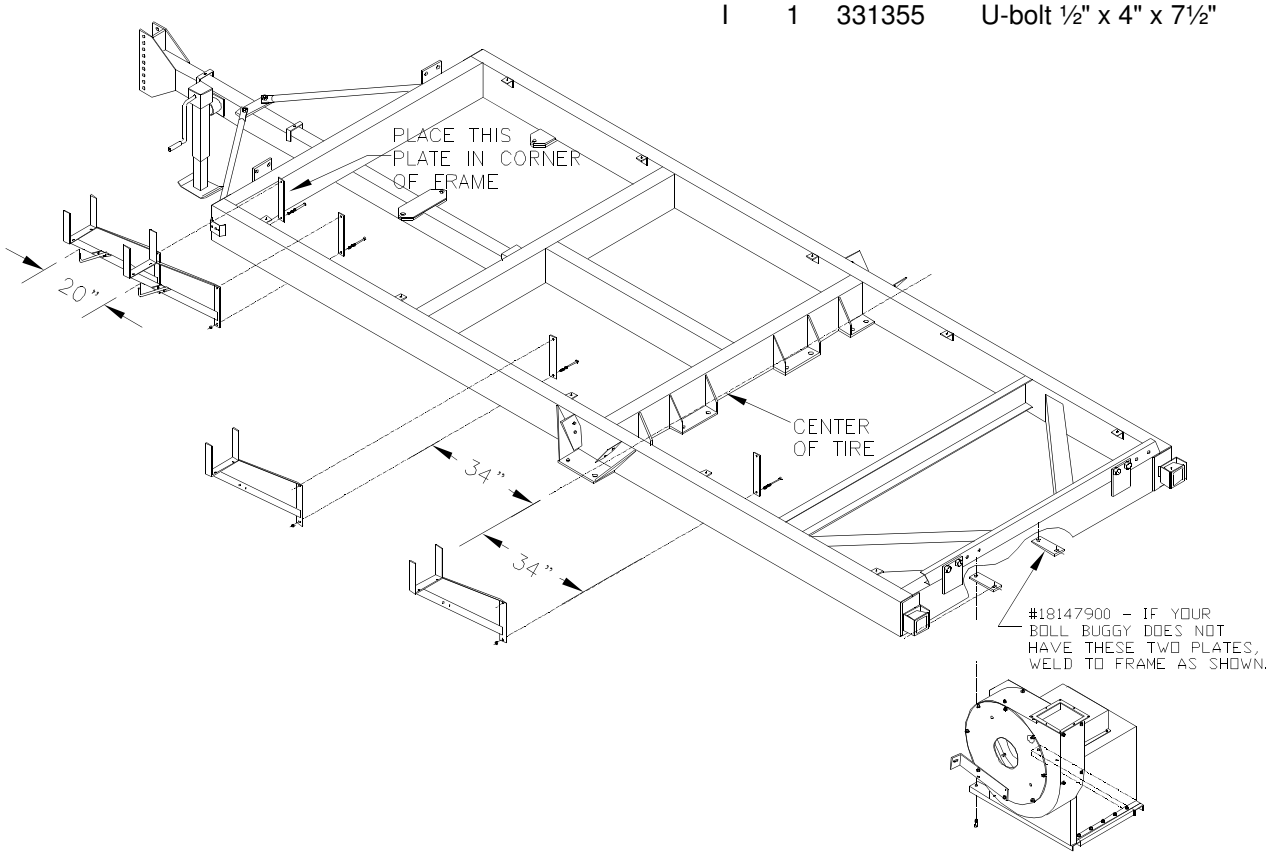


Boll Vac
Repair Parts

Item	Qty	Part No.	Description
1	1	870667	Fan Assembly
2	2	18147900	Fan Mounting Strap
3	6	01180900	HHCS ½" x 1 1/4"
4	6	330159	Flat Washer ½"
5	11	330142	Lock Washer ½"
6	11	330134	Hex Nut ½"
7	20	01010800	HHCS 5/16" x 1"
8	33	330845	Lock Washer 5/16"
9	33	330811	Hex Nut 5/16"
10	4	01225200	HHCS ½" x 5"
11	1	17902800	Fan Spout Bracket
12	1	17901000	Fan Spout Mount
13	1	82333600	Fan Spout
14	1	82334400	Fan Spout Top
15	1	17903600	Spout End
16	1	17925900	Fan Spout Mount Back
17	6	01144500	HHCS 5/16" x 3/4"
18	4	03461100	Hose Clamp 8"
19	1	03460300	Suction Hose 8" x 25'
20	4	82543000	Hose Rack
21	4	18161000	Hose Rack Strap
22	8	332965	HHCS 3/8" x 5½"
23	16	330035	Hex Nut 3/8"
24	1	18160200	Suction Hose Plate
25	8	01017300	HHCS 3/8" x 1"
26	1	62614300	Suction Tube Assembly
27	2	82336900	Tube Hanger
28	2	18163600	Hyd Hose Bracket
29	16	330043	Lock Washer 3/8"
30	1	03488400	Shoulder Strap
31	2	03489200	Shoulder Strap Ring
32	2	472217	Hose 3/4" x 454" ½" MP X 3/4" MP
33	14	03463700	Hose Clamp 1 1/4"
34	2	465385	Male Coupler 3/4" FOR
35	2	466912	Adapter Straight 3/4" MOR x ½" NPTF
36	2	263707	Hose Rack Spacer (For 140" Drop Axles)
37	1	18368100	Spout Deflector
38	1	331355	U-bolt ½" x 4" x 7 3/4"
39	1	208876	U-bolt Plate
40	5	01047000	Carriage Bolt 5/16" x 1"
41	2	265611	Half Band 8 x 4
42	2	227272	Suction Hose Bracket
43	2	500173	Spring
44	2	335448	HHCS 5/16" x 1½"

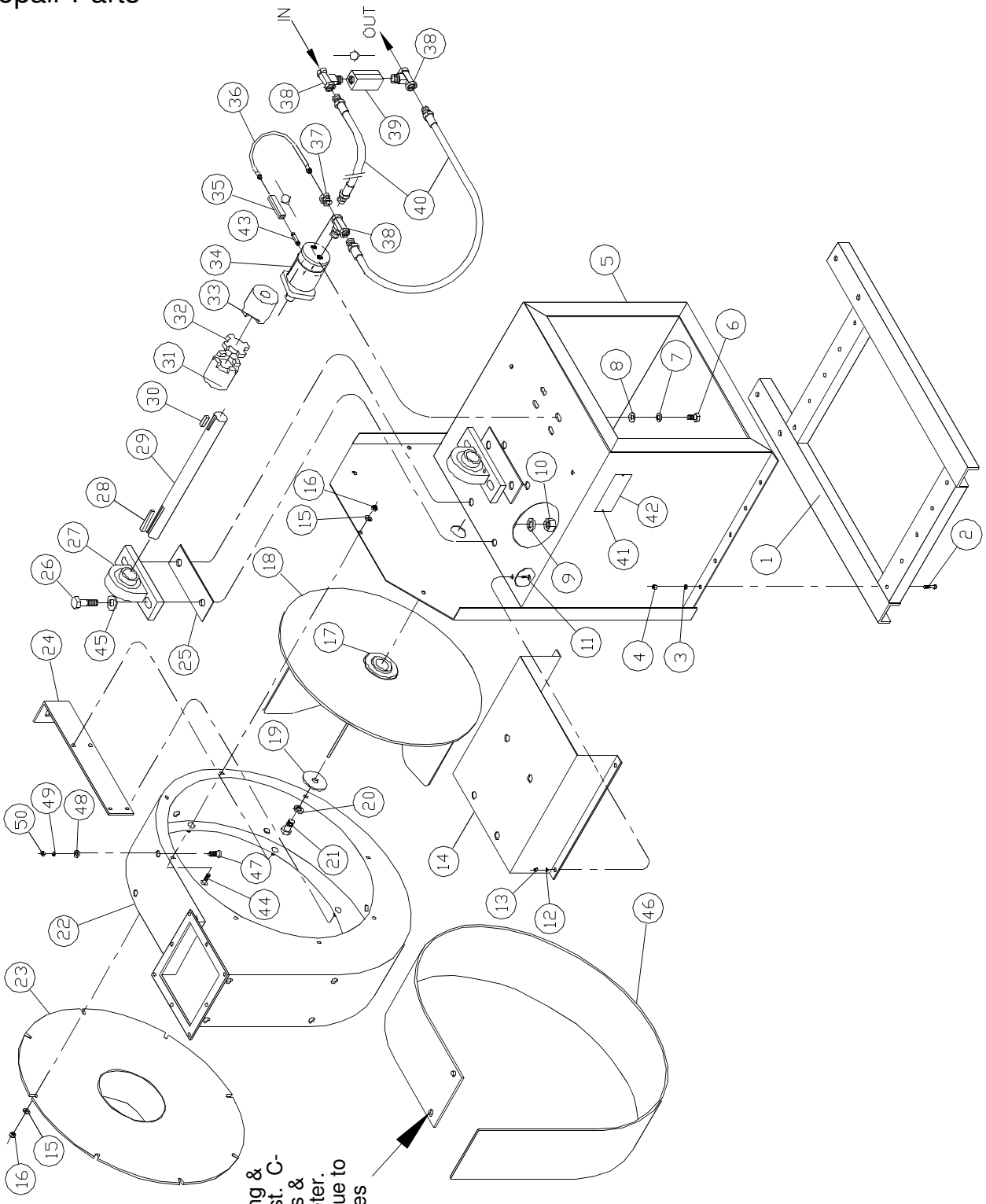
#871731 Selector Valve Kit Option

A	2	471847	Hose ½" x 60" 3/4" MOR
B	1	224519	Valve Mount
C	2	01145200	HHCS 3/8" x 3/4"
D	2	330043	Lock Washer 3/8"
E	2	331363	Hex Nylock Nut ½"
F	1	470278	Selector Valve
G	4	465294	Adapter Straight 3/4" MOR x 3/4" JICM
H	4	470997	Adapter Straight 3/4" JICF Sw x ½" NPTF
I	1	331355	U-bolt ½" x 4" x 7½"



Boll Vac Fan & Hydraulics

Repair Parts



Boll Vac Fan & Hydraulics

Item	Qty	Part No.	Description
1	1	82327800	Fan Mount
2	10	01017300	HHCS 3/8" x 1"
3	10	330043	Lock Washer 3/8"
4	10	330035	Hex Nut 3/8"
5	1	82326000	Vacuum Mount
6	4	01029800	HHCS ½" x 1"
7	4	330142	Lock Washer ½"
8	4	330159	Flat Washer ½"
9	4	330332	Lock Washer 3/4"
10	4	330290	Hex Nut 3/4"
11	4	01057900	HHCS 1/4" x 3/4"
12	4	330050	Lock Washer 1/4"
13	4	332205	Hex Nut 1/4"
14	1	18145300	Motor Cover
15	16	330894	Flat Washer 3/8"
16	16	330837	Hex Nylock Nut 3/8"
17	2	337022	Set Screw 3/8"-24 x 3/8" Cone Point
18	1	82328600	Fan
19	1	18146100	Fan Washer
20	1	330878	Lock Washer 5/8"
21	1	333336	HHCS 5/8" x 1 1/4" LH
22	1	82495300	Fan Housing
23	1	82307000	Fan Inlet
24	1	17889700	Fan Mount Bracket
25	2	18149500	Bearing Plate

Item	Qty	Part No.	Description
26	4	335174	HHCS 3/4" x 2½"
27	2	03455300	Bearing 1½" Pillow Block
28	1	11317500	Key 3/8" x 3"
29	1	17996000	Shaft 1.498" x 18"
30	1	19183300	Key 3/8" x 1½"
31	1	03457900	L-Jaw Coupling 1½" ID
32	1	03462900	Coupling Insert
33	1	03456100	L-Jaw Coupling 1" ID
34	1	471508	Hydraulic Motor
35	1	03459500	Check Valve 400-S
36	1	471474	Hose 1/4" x 16" -1/4" MP
37	1	471482	Pipe Reducer 3/4" MP - 1/4" FP
38	3	471490	Pipe Tee 3/4 MP - 3/4 F Sw
39	1	03458700	Check Valve 1200-S
40	2	471466	Hose 3/4" x 36" -3/4" MP
41	2	600577	Drive Rivet #6 x 1/4"
42	1	00694000	Serial Plate
43	1	03475100	Pipe Nipple 1/4" x 1½"
44	8	335919	Carriage Bolt 3/8" x 1 1/4"
45	4	02176600	Flat Washer 3/4" SAE
46	1	20515300	Fan Liner
47	16	01047000	Carriage Bolt 5/16" x 1"
48	16	330852	Flat Washer 5/16"
49	16	330845	Lock Washer 5/16"
50	16	330811	Hex Nut 5/16"

CrustBuster
SPEED KING INC.

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