

OPERATOR AND PARTS MANUAL

Loader

Models 295

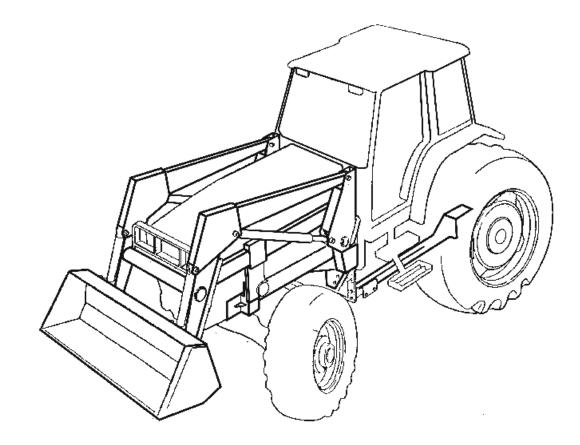




Table of Contents

Introduction	4
Terminology	
Hydraulic (Hose Kit)	5
Specifications	6
Safety	8
Safety	8
General Safety	9
Installation	9
Safety Decals	10
Important Precautions	11
Operation	12
Operation	
Operating Suggestions for Loading	13
Operating Suggestions for Backfilling	14
Attaching the Loader to Your Tractor	15
Removing the Loader from Your Tractor	17
General Instructions	19
Troubleshooting	20
Maintenance	22
Lubrication	22
Bolt Torque	
Checking BoltTorque	
Parts	24
Sub Frame Assembly and Parts List	
Main Frame Assembly and Parts List	
Hydraulic Plumbing Assembly and Parts List	
Assembly	00
Assembly	
Hydraulic Cylinder Assembly	30
Pre-delivery Check List	31
Warranty	32
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Introduction

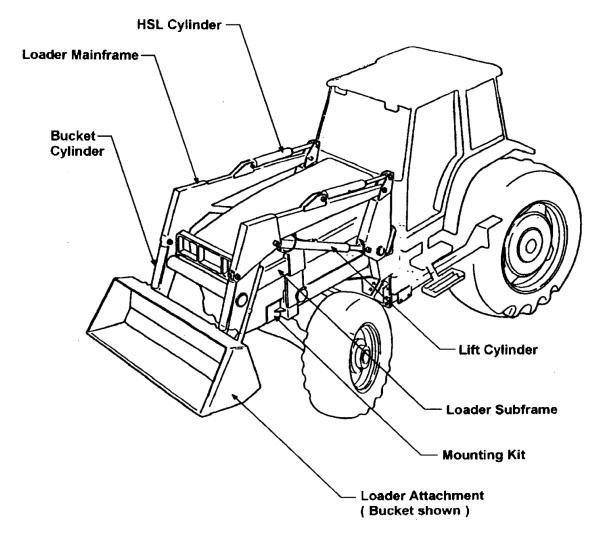
Allied by Farm King front-end loaders are backed by years of extensive research. Factory testing simulates specific operations to evaluate durability; days of continuous cycling in raising, twisting and dropping loads using a programmed hydraulic power unit represents years of extreme use. With one of the largest mounting kit application lists in the industry, there is an Allied front-end loader available for nearly every tractor, large or small, new or old. Custom colors are available to match all tractor brands which adds resale value and visual appeal.

Keep this manual handy for frequent reference. All new operators or owners must review the manual before using the equipment and at least annually thereafter. Contact your Allied by Farm King Dealer if you need assistance, information, or additional copies of the manual. Visit our website at www.buhlerindustries.com for a complete list of dealers in your area.

The directions left, right, front and rear, as mentioned throughout this manual, are as seen facing in the direction of travel of the implement.

Terminology

Basic terminology used throughout this manual has been identified below. For part numbers and further details refer to the Parts section.



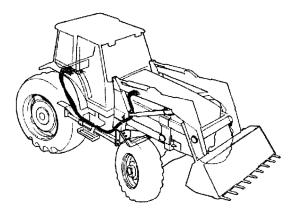


Hydraulic (Hose Kit)

Hose Kit "A"

Loader powered by the tractor remotes.

Consists of four hoses leading from loader tubing to tractor remote couplers



O Contraction

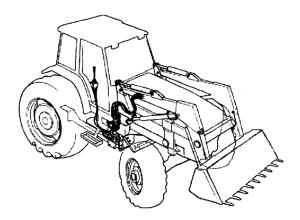
Hose Kit "C"

Hose Kit "B"

Loader operated by an external valve that is plumbed into the tractor hydraulic system.

Loader operated by an external OC or CC valve that is powered from the tractor remotes.

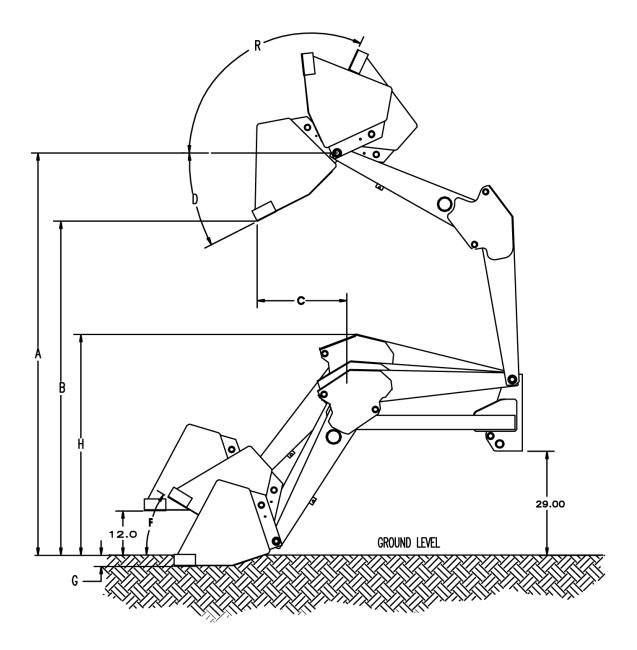
Consists of 4 hoses leading from loader tubing to external mounted valve plus the necessary fittings, hoses and adapter blocks (if necessary) to tap into tractor hydraulic system. Use valve type shown with hose kit "C"







Specifications





Model number: 295 Mounting height: 29" (nominal) Typical range: 27" to 31"

Description	Bucket	Lift
Bore	2.00	2.50
Rod	1.25	1.50
Stroke	20.63	20.63
Extended Lenth	52.63	53.63
Retracted Length	32.00	33.00

- A Maximum lift height (full height): 114"
- B Clearance with bucket dumped (full height): 97"
- C Reach (full height): 22"
- D Maximum dump angle (full height): 25°
- F Bucket rollback angle (ground): 32°
- G Digging depth: 2.2"
- H Overall height in carry position: 60.9" (5.2')
- R Rollback angle at full height: 117°
- Estimated breakout force: 1850 lbs
- Estimated lift capacity: 1460 lbs

Notes:

- 1 Estimated values assume 2500 psi lift cylinder pressure
- 2 Breakout force estimated as per ASAE S301.2 4.1.2 (net payloud applied at cutting edge)
- 3 Lift capacity estimated a per ASAE S301.2 4.1.1 (net payload applied at bucket midpoint)



Safety

Safety Instructions

Remember, YOU are the key to safety. Good safety practices not only protect you, but also the people around you. Make these practices a working part of your safety program. Be certain that everyone operating this equipment is familiar with the recommended operating and maintenance procedures and follows all the safety precautions. Most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

The alert symbol is used throughout this manual. It indicates attention is required and identifies hazards. Follow the recommended precautions.



The safety alert symbol means... ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

<u>CAUTION</u>	The caution symbol indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
WARNING	The Warning Symbol indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.
<u>DANGER</u>	The Danger Symbol indicates an imminently hazardous situation that, if not avoided will result in death or serious injury. This signal word is to be limited to the most extreme situations, typically for machine components that, for functional purposes, cannot be guarded.



General Safety Instructions

- Have a first-aid kit available for use and know how to use it.
- Have a fire extinguisher available, stored in a highly visible location, and know how to use it.
- Wear appropriate protective gear. This list may include but is not limited to:
 - hard hat
 - protective shoes with slip resistant soles
 - protective glasses or goggles
 - heavy gloves
 - wet weather gear
 - hearing protection
 - respirator or filter mask
- Read and understand the Operator's Manual and all safety signs before operating, servicing, adjusting, repairing, or unplugging the equipment.
- Never work beneath raised loader unless it is securely supported. The following are instructions for the lift lock supports.
- Do not pivot or turn tractor with bucket raised, except at a minimum speed. Always make allowance for length of loader when making turns.
- Never leave tractor unattended while the bucket is raised. Always lower bucket to the ground and shut off before leaving the tractor seat.
- Do not walk under raised bucket.
- Never operate loader while operator is not seated in the driver's seat on the tractor.
- Keep tractor on solid ground. Loose fill, rocks and holes can be dangerous for loader operation or movement.
- Never operate a loader with frayed or damaged hoses or leaking fittings.
- For stability, rear wheels of tractor should be set a maximum convenient spacing and add ballast to rear wheels.
- Do not raise bucket to extreme heights while tractor is on an incline. Carry loader low for safety. Load center when bucket is raised on a slope. Be alert for terrain changes and adjust bucket accordingly. Keep bucket low, no more than one foot high, as long as possible.
- Note: A pivoting front axle acts like a three-wheeled tractor until the stops hit the axle.
- If the cylinders are used to raise front wheels of tractor for service, place blocks under tractor before working around front end.

Installation

- To install safety signs, ensure the installation area is clean and dry. Decide on the exact position before you remove the backing paper. Remove the smallest portion of the split backing paper and align over the specified area. Carefully press in place.
- Slowly peel back the remaining paper and smooth the remaining portion in place. Small air pockets can be pierced with a pin and smoothed out.



Safety Decals







Important Precautions





Operation

Operation

General Operating Notes:

Refer to tractor Operator's Manual for Operating information on the tractor's hydraulic system.

Hydraulic systems using auxiliary valves should have them located for easy reach from the tractor seat. Hoses should be connected in such a manner that pushing forward on valve handles lowers the boom or dumps the bucket



WARNING Always connect boom hoses to float section.

Weight added to rear of tractor provides better traction and an easier, more efficient loader operation. Extra weight along with the rear wheels, reduces the risk of roll-over.

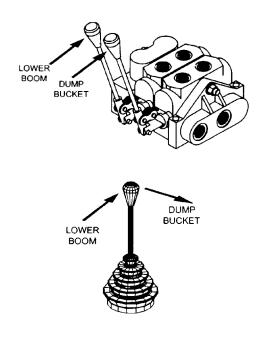
The smaller the tractor is, the easier it will roll. We recommend that weight be added to rear tires with liquid or by the installation of rear wheel weights. Where additional weight is required, a counterweight box can be fabricated for tractors with three-point hitches.

Extra weight can also be added by the use of a heavy implement mounted to the three-point hitch.

A roll-over protective structure is also recommended.

In cold weather, operate the tractor's engine at idle speed until the hydraulic fluid is warmed up. High engine speed when the hydraulic fluid is cold will cause the pump to wear prematurely.

Under normal conditions, operate the tractor's engine at 1/2 throttle. Shift the tractor into a low gear before entering a pile of material to minimize strain on loader arms.

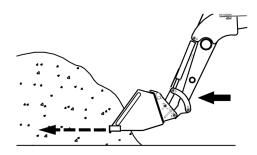




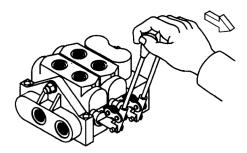
Operating Suggestions for Loading

When handling heavy loads, be sure to lower lift arms slowly. This is known as feathering the hydraulic lever. If load is lowered too fast and stopped suddenly, excessive shock loads are created which can damage loader or tractor.

When loading bucket, drive straight into material. Attempting to turn tractor while loading bucket can cause damage to both the loader and tractor.

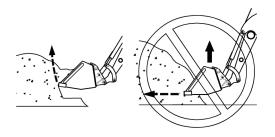


Note: Bottom surface of bucket is parallel to line on motion.

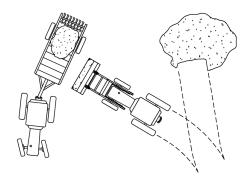


Work both levers back to direct pressure to both cylinders.

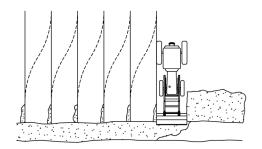
Combined action of lift and bucket cylinders increases loading efficiency.



A straight bottom offers more resistance to lift.



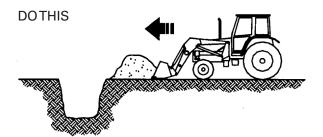
To increase loading efficiency. Minimize angle of turn and length to run between pile and spreader.



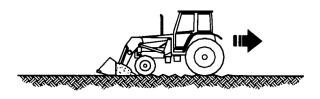
Leave material, which drifts over the bucket sides for final cleanup.



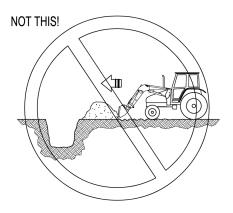
Operating Suggestions for Backfilling



When backfilling approach pile with a flat bucket. Leave dirt in bucket. Dumping on each pass wastes time.



Backgrade work surface with a loaded bucket. Release all pressure on lift cylinders so full weight of bucket is scraping ground. Use heel of bucket



Do not use bucket in dumped position for bulldozing. This will only impose severe shock loading on the bucket cylinders and make it more difficult to maintain a level grade.



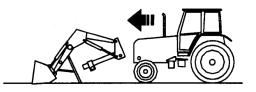


Attaching the Loader to Your Tractor

- 1. Postions the tractor as centrally as possible and drive, using lowest gear possible, into the loader frame until hoses can be connected.
- 2. Couple up the hydraulic hose lines to the loader or tractor valve ensuring proper function (see operator and maintenance section)

NOTE: When mounting the loader for the first time, slowly work the cylinders back and forth, so that most of the air is removed Loosen the bolts on the hooks so that they can be moved. Also, check that the nuts in the rear of the subframe are in line with the holes.

3. On some tractors, the lift cylinders may have to be extended slightly, so that the subframes can clear the front axle. Do not extend the cylinders more than is required.



On self leveling loaders, the bucket will dump at the same time the loader is raised. Therefore, Operate both hydraulic levers together.

4. Drive the tractor ahead until the subframe is past the front axle and the front hook is close to mounting boss.



Check front grille clearance during installation to avoid tractor damage.

5. Retract or extend the lift cylinders to line up the front hook with the mounting boss.



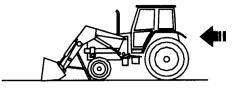
On self leveling loaders, the bucket will roll back at the same time the loader is lowered. Therefore, operate both hydraulic levers together.

6. When the hook is lined up, dump or roll back the bucket to lower or raise the subframe upright to align with the mounting boot.

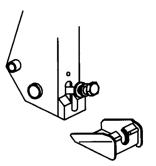




7. Continue to drive the tractor forward until the subframe uprights are seated in the boot.



8. Secure the subframe uprights with the bolts and washers. Torque 500 ft-lb.



When mounting for the first time, the front hook bolts will have to be tightened after positioning the hook directly over the mounting boss (most rearward position)

9. Raise the loader and lock the support stand tubes in the up position.



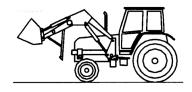
When mounting for the first time, raise the loader slowly and check to make sure that the hoses do not bind or become pinched in all positions. Work the loader and bucket up and down to work out all the air in the hydraulics. Check and refill the tractor's hydraulic system.



Removing the Loader from Your Tractor

WARNING Always remove the loader on firm, level ground (away from children's play area and high traffic areas). This makes attaching and removing much faster and easier. It also makes the free standing loader more stable.

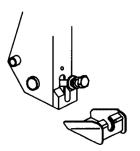
1. Raise the loader, lower support stand tubes and lock into position.



2. Lower the loader until the stand tubes are firmly on the ground and then dump the bucket so that it is also firmly on the ground. there should be slight downward pressure.

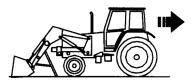


3. Loosen the bolts from the rear of the subframe boots and swing bolt up into lock position.





4. Roll back the bucket slightly and simultaneously extend or retract the lift cylinders to free hooks from spools. Then slowly back up the tractor.



5. Once the subframe is clear of the boot and the hook is clear of the mounting boss, roll back the bucket all the way. This raises the rear uprights of the loader.



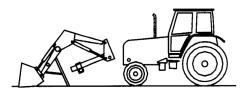
On some mountings, the lift cylinders must be extended more while the tractor is backing up, so that the subframes clear the front axle.

6. Continue backing up until the loader is clear.



Be sure the hoses do not get pinched or catch on any frame members while backing up.

7. After the loader is clear, retract the lift cylinders to protect the shafts and disconnect the hydraulic lines at quick couplers.

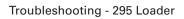




General Instructions

As with any piece of equipment, the care with which your loader is operated and maintained will greatly affect it's life and the safety of the people using it.

- 1. Keep all pivots well lubricated for longer bushing life. Inspect every 500 hours of operation for wear.
- 2. Periodically check all bolts for tightness. If any bolt is damaged, replace it with a bolt ofequivalent grade or strength.
- 3. Follow the recommendations of the tractor manufacturer in regards to the quantity of oil used.
- 4. Check oil level frequently to ensure the system is full.
- 5. When making an oil check, be sure lift cylinders are retracted.
- 6. Before operating the loader, particularly if the loader is left standing for any length of time, check the hydraulic system and oil level.
- 7. When installing hydraulics, follow the circuit carefully. See hydraulic hook-up section and make sure the hoses do not contact any hot manifolds or sharp edges on tractor. After assembly, raise the loader slowly and check to make sure that the hoses do not bind in all positions.
- 8. The pressure of the relief and open center valves is set at the factory. Do not tamper with the setting, serious injury to the operator or damage to the loader or tractor hydraulics may occur. Warranty will be void if the loader is operated above recommended pressure.
- 9. When servicing any hydraulic components, care must be taken to prevent any foreign matter from entering the system.
- 10. Do not neglect oil leaks. Leaks affect loader operation, are dangerous and can result in personal injury or damage to the hydraulic system.
- 11. Never leave the cylinder shafts exposed when loader is not in use.
- 12. Worn or damaged components should be replace as soon as possible with only the manufacturer's recommended component or equivalent.



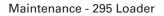


Troubleshooting

Problem	Possible Cause	Remedy	
	Quick couplers leaking	Check connections and compatibility or replace	
	Hydraulic oil too heavy	Change or replace filter	
	Oil filter plugged	Clean or replace filter	
	Hydraulic pump worn	Repair or replace pump	
	Oil line restricted or leaking	Check all hoses and tubes for leaks, damage or restrictions	
Loader slow and/or will not dump	Oil line restricted or leaking	Replace damaged or restricted hoses or tube lines	
	Control valve does not shift properly	Inspect, clean, repair or replace valve	
	Air in hydraulic system	Cycle lift cylinders and bucket cylinders several times to free system of air	
	Cylinder leaks internally	Replace seals	
	Faulty valve	Repair or replace valve	
	Air leak in pump inlet line	Check, tighten or replace inlet line	
Loader chatters or vibrates when raising and lowering	Air in hydraulic system	Cycle lift cylinders and bucket cylinders	
	Oil level too low	Add oil as required	
Excessive movement at pivots	Worn bushings and/or pins	Replace bushings and/or pins	
		Check for air leaks, restrictions or collapsed hose	
	Inlet line restricted or leaking	Tighten or replace hose	
Pump noisy		Clean filter if necessary	
	Oil level too low	Add oil as required	
	Pump worn or damaged	Repair or replace pump	
	Damaged fitting or hoses	Replace damaged parts	
Oil leaks	Loose connections	Tighten fittings	
	Worn or damaged o-ring wiper seal in cylinder rod end	Install a seal repair kit	



Problem	Possible Cause	Remedy	
	Improper hydraulic pump operation	Repair or replace pump	
Insufficient lift capacity	Load is greater than boom lift capacity	Check loader specifications	
	Internal boom cylinder leakage	Replace any worn parts and install a seal repair kit	
	Improper hydraulic valve operation	Repair or replace valve	
Slow leak down	Worn control valve	Have authorized dealer	
	Worn cylinder piston seals	replace seals	
Excessive wear on bottom of bucket and wear pads	Float position not used while operating loader	Use float position provided on valve	
Hydraulic cylinders inoperative	Hose from control valve improperly connected	Refer to plumbing diagrams	
	Tractor control valve relief stuck open	See your service manual for proper adjustment	
Pump operating continually on closed center tractor hydraulics system	Incorrect Auxiliary Valve	Check with loader dealer for proper valve application	
	Hydraulic control valve set to low	Adjust valve in accordance with manual	
Loader lift and bucket tilt controls do not work according to decal	Hoses improperly connected	Refer to plumbing diagrams and correct hose connections	
Valve noisy and/or hot	Open center control valve on closed center tractor	Replace relief valve with closed center plug and plug the power beyond adapter on valve	
		Install open center plug on optional valve	
Tractor loads/pump squeals	Closed center control valve on open center tractor	Replaceclosed center plug with relief and install short plug in place of the power beyond adapter	



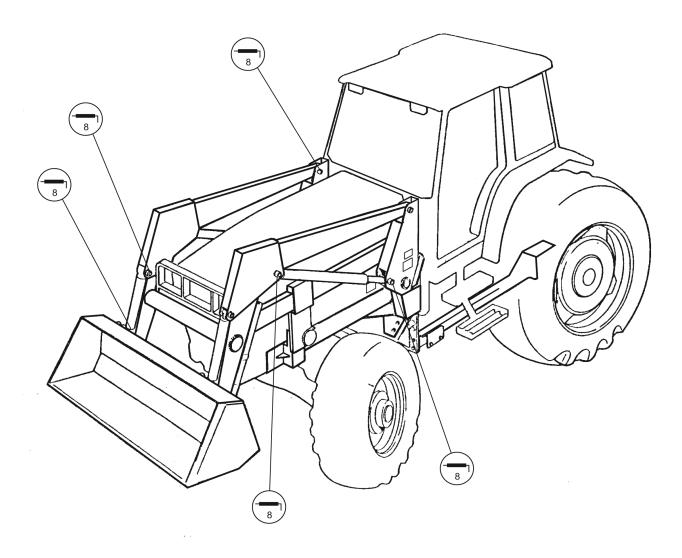


Maintenance

Lubrication

Lubricate tractor hydraulic unit as indicated in tractor operator's manual. Keep bushings on lift arm pivots and cylinders well lubricated. Use high-grade lithium grease every 8 hours of operation.

NOTE: Frequent greasing will prevent contaminants from migrating between the pins and bushings





Bolt Torque

Checking Bolt Torque

The tables shown below give correct torque values for various bolts and hex bolts. Tighten all bolts to the torques specified in chart unless otherwise noted. Check tightness of bolts periodically, using bolt torque chart as a guide. Replace hardware with the same strength bolt.

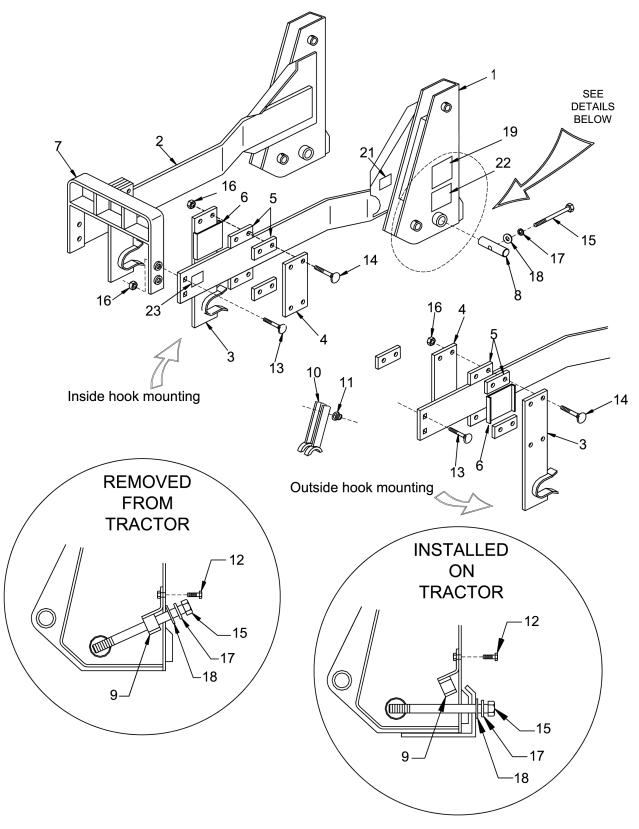
Standard Bolt Torque							
Bolt Size	Grade 2		Grade 2 Grade 5		de 5	Grade 8	
(in)	Tor	Torque		que	Tor	que	
	ft-lb	NM	ft-lb	NM	ft-lb	NM	
0.25	6	7	8	11	12	16	
0.313	11	15	17	23	25	33	
0.375	20	27	31	41	44	60	
0.438	32	43	49	66	70	95	
0.5	49	66	76	103	106	144	
0.563	70	95	109	148	153	207	
0.625	97	131	150	203	212	287	
0.75	144	195	266	360	376	509	
0.875	166	225	430	583	606	821	
1	250	339	644	873	909	1232	
1.125	354	480	795	1077	1288	1745	
1.25	500	678	1120	1518	1817	2462	
1.375	655	887	1470	1992	2382	3228	
1.5	870	1179	1950	2642	3161	4283	

Metric Bolt Torque								
Bolt Size	Clas	s 5.6	Grad	Grade 8.8 Grade 10.9		Grade 12.9		
(mm)	Tor	que	Torque		Tor	que	Tor	que
	ft-lb	NM	ft-lb	NM	ft-lb	NM	ft-lb	NM
6 8 10	3.1 7.7 15	4.3 10.5 21	7.3 17.7 35	9.9 24 48	10.3 25 49	14 34 67	12.1 29 59	16.5 40 81
10 12 14 16	26 42 64	36 58 88	61 97 147	83 132 200	86.2 136 210	117 185 285	103 162 250	140 220 340
18 20 22	89 126 169	121 171 230	202 287 390	275 390 530	287 405 549	390 550 745	346 486 656	470 660 890
24 27 30	217 320 435	295 435 590	497 733 995	675 995 1350	708 1032 1401	960 1400 1900	840 1239 1681	1140 1680 2280
33 36 39	590 759 988	800 1030 1340	1349 1740 2249	1830 2360 3050	1902 2441 3163	2580 3310 4290	2278 2935 3798	3090 3980 5150





Sub Frame Assembly



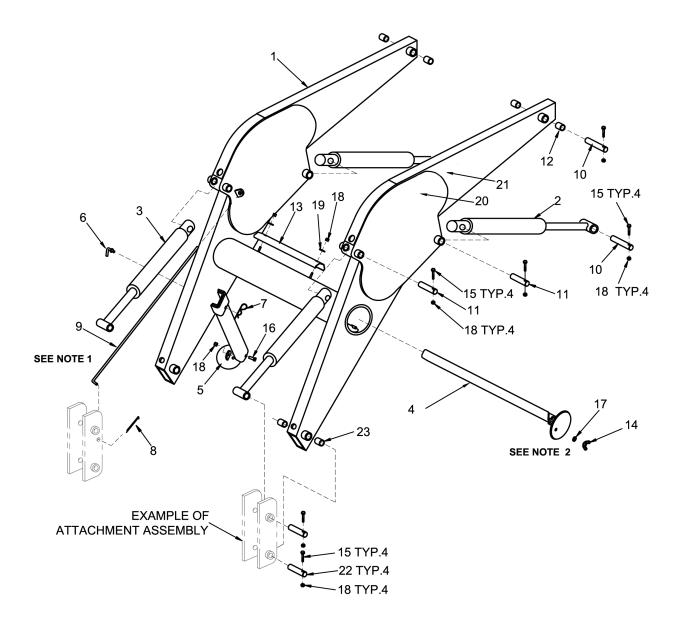


ltem	Part #	Description	Qty 295
1	31627	295 Sub Frame Weldment Left	1
2	31628	295 Sub Frame Weldment Right	1
3	113555	Hook Weldment	2
4	113556	Plate Clamp	2
5	113557	Spacer Block	8
6	113558	Shim	2
7	113444	Cross Member Weldment	1
8	112642	Shaft Pivot 1.75 Dia. x 5.50 Long	2
9	113281	Bolt Retainer Weldment	2
10	113746	Loader Lift Lock Weldment	2
11	812717	Grommet 0.375 ID x 1.00 OD x .13	2
12	812026	Bolt Hex 0.313Nc x 1.00 Gr5 Pl	2
13	813059	Bolt Car. 0.500Nc x 2.00 Gr5 Pl	4
14	813060	Bolt Car. 0.500Nc x 3.00 Gr5 Pl	8
15	812939	Bolt Hex 0.875Nc x 10.00 Gr8 Pl	2
16	81966	Nut Lock (Nylon) 0.500nc GrB Pl	12
17	81723	Washer Lock 0.875 PI	2
18	112730	Washer Boot	2
19	112812	*Decal - General Caution	1
20	113798	*Decal - 295 x 1.40	2
21	112982	*Decal - Lift Lock Instruction	1
22	112983	*Decal - Warning Overhead Hazard	1
23	113474	*Decal - Cross Member Caution	1

*Part of decal replacement kit X1584



Main Frame Assembly



NOTES

1) LEVELING ROD SHOWN ON OPPOSITE SIDE FOR CLARITY.

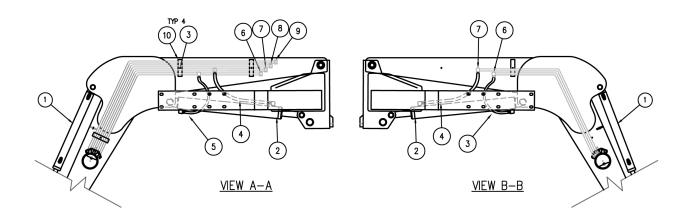
2) STORE PARKING STAND WITHIN CROSS TUBE.

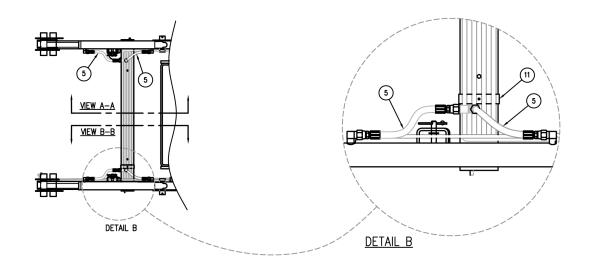


ltem	Part #	Description	Qty
1	25452	295 Mainframe	1
2	25419	Lift Cylinder	2
3	25381	Bucket Cylinder	2
4	117263	Stand Leg	2
5	116864	Stand Foot	2
6	116685	Stand Pin	2
7	12779	Hair Pin Clip	2
8	84162	Cotter Pin 5/32 x 1.000	1
9	114524	Leveling Rod (48.0")	1
10	112954	Pin 1.250 Dia. x 6.750 Long	4
11	113797	Pin 1.000 Dia. x 5.000 Long	4
12	113766	Bushing 1.250 ID x 1.500 OD x 1.375 Long	4
13	117119	Tube Cover	1
14	84217	Nut Wing 0.375"	2
15	81581	Bolt Hex 0.375Nc x 2.500 Gr5 Pl	4
16	86170	Bolt Hex 0.375Nc x 1.0 Gr5 Pl	2
17	81593	Washer 0.375" Lock	2
18	81344	Nut Lock (nylon) 0.375Nc Pl	8
19	81570	Washer Flat Std 0.375 Hs Pl	2
20	813356	Decal - Buhler Allied x 1.75	2
21	52281-000	Bright Orange Scotchcal #72368	8.5ft
22	104719	Pin 1.000 Dia. x 6.000 Long	4
23	113577	Bushing 1.000 ID x 1.250 OD x 1.375 Long	4



Hydraulic Plumbing Assembly







ltem	Part #	Description	Qty
1	25381	Bucket Cylinder	2
2	25419	Lift Cylinder	2
3	814489	Screw Sheet Metal - #12 x 1.50 Unc	4
4	115730	3/8 x 20 Hose 3/4 -16 Swfjic x 3/4-16 Swfjic	2
5	115260	3/8 x 15 Hose 3/4 -16 Morb x 3/4-16 Swfjic	6
6	117110	Tubing - Lift Cyl. Bottom Raise	1
7	117109	Tubing - Lift Cyl. Top Drop	1
8	117108	Tubing - Bucket Cyl. Bottom Dump	1
9	117107	Tubing - Bucket Cyl. Top Rollback	1
10	814327	Clip Hydraulic Lines 1/2"	4
11	814330	Rubber Clip 1/2" - CrossTube	1

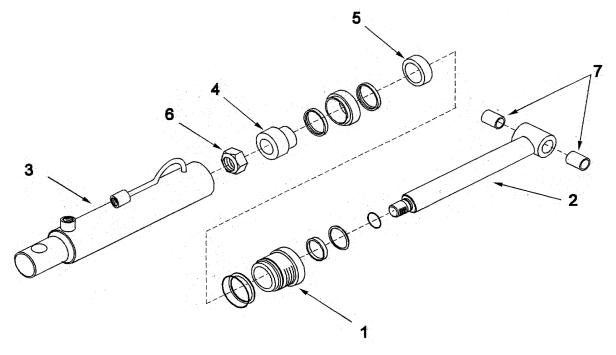


Assembly

Hydraulic Cylinder Assembly

ltem	Description	Bucket Cylinders	Lift Cylinders
	Diameter	2.00"	2.50"
	Length of Stroke	20.63"	20.63"
	Retracted Length	32.00"	33.00"
	Extended Length	52.63"	53.63"
	Cylinder Assembly No.	25381	25419
	Seal Kit No.	X1348	X1110
	Shaft Diameter	1.25"	1.50"
1	Head Plate No.	24516	24540
2	Shaft Weldment No.	113799	113120
3	Cylinder Tube Weld't No.	25380	25418
4	Piston Half (wide) No.	114520	113217
5	Piston Half (narrow) No.	114521	113216
6	Self-Locking Nut No.	812655	810457
7	Shaft Bushing No.	113577	113766

- 1. Bucket cylinder shown.
- 2. All cylinder seals are contained in corresponding seal kit.



<u>CAUTION</u> Maximum pressure - 3000 psi



Pre-delivery Check List

Before delivering this equipment please complete the following check list.

- ____1. The loader has been installed using the appropriate mounting kit for the tractor and loader.
- ____2. The hydraulic system installed is appropriate for the tractor and loader.
- ____ 3. The loader is properly installed.
- ____4. All bolts are tightened to the torque specifications shown in the torque chart.
- ___ 5. All safety decals are readable.
- ____ 6. The loader has been tested and operates properly.

____7. The operator's manual has been delivered to the owner who has been instructed on the safe and proper use of the loader.

Dealer's Signature:

This check list is to remain in this owner's manual and is the responsibility of the dealer to complete it before delivery to the customer.



Allied by Farm King Limited Warranty

This document limits your warranty rights.

Base Limited Warranty

Buhler Industries Inc. provides this warranty only to original retail purchasers of its product. Buhler Industries Inc. warrants to such purchasers that all Buhler Industries Inc. manufactured parts and components used and serviced as provided for in the Operator's Manual shall be free from defects in materials and workmanship for a period following delivery to the original retail purchaser of 12 months (80 days for commercial applications). This limited warranty applies only to those parts and components manufactured by Buhler Industries Inc. Parts and components manufactured by others are subject to their manufacturer's warranties, if any.

Buhler Industries Inc. will fulfill this limited warranty by, at its option, repairing or replacing any covered part that is defective or is the result of improper workmanship, provided that the part is returned to Buhler Industries Inc. within thirty (30) days of the date that such defect or improper workmanship is, or should have been, discovered. Buhler Industries Inc. reserves the right to either inspect the product at the buyer's location or have it returned to the factory for inspection. Parts must be returned through the selling representative and the buyer must prepay transportation charges.

Buhler Industries Inc. will not be responsible for repairs or replacements that are necessitated, in whole or part, by the use of parts not manufactured by or obtained from Buhler Industries Inc. Under no circumstances are component parts warranted against normal wear and tear. There is no warranty on product pump seals, product pump bearings, rubber product hoses, pressure gauges, or other components that require replacement as part of normal maintenance. Also: Buckets and Bucket Tines carry no warranty, Bent Spears carry no warranty, Snowblower Fan Shafts carry no warranty, Mower Blades carry no warranty, Portable Auger Parts Have Two (2) Year Warranty, Loader Parts Have Two (2) Year Warranty. The purchaser is solely responsible for determining suitability of goods sold. This warranty is expressly in lieu of all other warranties expressed or implied. Buhler Industries Inc. will in no event be liable for any incidental or consequential damages whatsoever. Nor for any sum in excess of the price received for the goods for which liability is claimed.

Repair Parts Limited Warranty

Buhler Industries Inc. warrants Allied by Farm King replacement parts purchased after the expiration of the Buhler Industries Inc. Limited Warranty, and used and serviced as provided for in the Operator's Manual, to be free from defects in materials or workmanship for a period of thirty (30) days from the invoice date for the parts. Buhler Industries Inc. will fulfill this limited warranty by, at its option, repairing or replacing any covered part that is defective or is the result of improper workmanship, provided that the part is returned to Buhler Industries Inc. within thirty (30) days of the date that such defect or improper workmanship is, or should have been, discovered. Such parts must be shipped to Buhler Industries Inc. at the purchaser's expense.

What is Not Covered

Under no circumstances does this limited warranty cover any components or parts that have been subject to the following: negligence; alteration or modification not approved by Buhler Industries Inc.; misuse; improper storage; lack of reasonable and proper maintenance, service, or repair; normal wear; damage from failure to follow operating instructions; accident; and/ or repairs that have been made with parts other than those manufactured, supplied, and or authorized by Buhler Industries Inc.



Authorized Dealer and Labor Costs

Repairs eligible for labor under this limited warranty must be made by Buhler Industries Inc. or an authorized Allied by Farm King dealer. Buhler Industries Inc. retains the exclusive discretion to determine whether it will pay labor costs for warranty repairs or replacements, and the amount of such costs that it will pay and the time in which the repairs will be made. If Buhler Industries Inc. determines that it will pay labor costs for warranty work, it will do so by issuing a credit to the dealer's or distributor's account. Buhler Industries Inc. will not approve or pay invoices sent for repairs that Buhler Industries Inc. has not previously approved. Warranty service does not extend the original term of this limited warranty.

Warranty Requirements

To be covered by warranty, each Allied by Farm King new product must be registered with Buhler Industries Inc. within thirty (30) days of delivery to original retail purchaser. If the customer decides to purchase replacement components before the warranty disposition of such components is determined, Buhler Industries Inc. will bill the customer for such components and then credit the replacement invoice for those components later determined to be covered by this limited warranty. Any such replacement components that are determined not be covered by this limited warranty will be subject to the terms of the invoice and shall be paid for by the purchaser.

Warranty Claims:

Warranty requests must be prepared on Buhler Industries Inc. Warranty Claim Forms with all requested information properly completed. Warranty Claims must be submitted within a thirty (30) day period from date of failure repair.

Warranty Labor:

Any labor subject to warranty must be authorized by Buhler Industries Inc. The labor rate for replacing defective parts, where applicable, will be credited at 100% of the dealer's posted shop rate.

Exclusive Effect of Warranty and Limitation of Liability

TO THE EXTENT PERMITTED BY LAW, BUHLER INDUSTRIES INC. DISCLAIMS ANY WARRANTIES, REPRESENTATIONS, OR PROMISES, EXPRESS OR IMPLIED, AS TO THE QUALITY, PERFORMANCE, OR FREEDOM FROM DEFECT OF THE COMPONENTS AND PARTS COVERED BY THIS WARRANTY AND NOT SPECIFICALLY PROVIDED FOR HEREIN.

TO THE EXTENT PERMITTED BY LAW, BUHLER INDUSTRIES INC. DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ON ITS PRODUCTS COVERED HEREIN, AND DISCLAIMS ANY RELIANCE BY THE PURCHASER ON BUHLER INDUSTRIES INC.'S SKILL OR JUDGMENT TO SELECT OR FURNISH GOODS FOR ANY PARTICULAR PURPOSE. THE PURCHASER'S ONLY AND EXCLUSIVE REMEDIES IN CONNECTION WITH THE BREACH OR PERFORMANCE OF ANY WARRANTY ON PRODUCTS MANUFACTURED BY BUHLER INDUSTRIES INC. ARE THOSE SET FORTH HEREIN. IN NO EVENT SHALL BUHLER INDUSTRIES INC. BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, BY WAY OF EXAMPLE ONLY AND NOT LIMITATION, LOSS OF CROPS, LOSS OF PROFITS OR REVENUE, OTHER COMMERCIAL LOSSES, INCONVENIENCE, OR COST OF REPLACEMENT OF RENTAL EQUIPMENT). IN NO EVENT SHALL Allied by Farm King'S CONTRACT OR WARRANTY LIABILITY EXCEED THE PURCHASE PRICE OF THE PRODUCT.



(Note that some provinces or states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusion may not apply to you.) This warranty gives you specific legal rights and you may also have other rights, which vary from province to province or state to state.

Buhler Industries Inc. neither assumes nor authorizes any person or entity, including its selling representatives, to assume any other obligations or liability in connections with the sale of covered equipment, or to make any other warranties, representations, or promises, express or implied, as to the quality, performance, or freedom from defect of the components and parts covered herein. No one is authorized to alter, modify, or enlarge this limited warranty, or its exclusions, limitations and reservations.

Corrections of defects and improper workmanship in the manner, and for the applicable time periods, provided for herein shall constitute fulfillment of all responsibilities of Buhler Industries Inc. to the purchaser, and Buhler Industries Inc. shall not be liable in negligence, contract, or on any other basis with respect to the subject equipment.

This limited warranty is subject to any existing conditions of supply which may directly affect Buhler Industries Inc.'s ability to obtain materials or manufacture replacement parts.

Buhler Industries Inc. reserves the right to make improvements in design or changes in specifications to its products at anytime, without incurring any obligation to owners of units previously sold.

Government Legislation:

Warranty terms and conditions are subject to provincial or state legislation.

Important Note: This warranty does not apply to rentals.

www.farm-king.com



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