

Assembly, Operator's and Parts Manual

Part No. P3690

WARRANTY REGISTRATION AND POLICY

Buhler Manufacturing products are warranted for a period of twelve (12) months from original date of purchase, by original purchaser, to be free from defects in material and workmanship under correct, normal agricultural use and proper applications.

Buhler Manufacturing's obligations under this warranty shall be limited to the repair or exchange, at Buhler Manufacturing's option, of any Buhler Manufacturing product or part which proves to be defective as provided. Buhler Manufacturing reserves the right to either inspect the product at the buyer's location or have it returned to the factory for inspection.

The above warranty does not extend to goods damaged or subject to accident, abuse or misuse after shipment from Buhler Manufacturing's factory, nor to goods altered or repaired by anyone other than an authorized Buhler Manufacturing representative.

Buhler Manufacturing makes no Express Warranties other than those which are specifically described. Any description of goods, including any references and specifications in catalogues, circulars and other written material published is for the sole purpose of identifying goods and shall conform to such descriptions. Any sample or model is for illustrative purposes only and does not create an Express Warranty that the goods conform to sample or model shown.

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 Manufacturing 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.

WARRANTY CLAIMS:

Warranty requests must be prepared on Buhler Manufacturing 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 Manufacturing. The labor rate for replacing defective parts, where applicable, will be credited at a rate determined by the Company, Buhler Manufacturing.

IMPORTANT FACTS:

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

495 & S495 Hydraulic Farm Loader

Operator's Manual

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IMPORTANT

PLEASE READ AND UNDERSTAND THIS MANUAL BEFORE OPERATING LOADER.

Model number: 495 REGULAR

Mounting height: 36.0" nominal (Typical range: 33.0" - 39.0")

Cylinder specifications:

Cylinder	Bore	Rod	Stroke
Bucket	2.50"	1.50"	20.63"
Lifting	2.50"	1.50"	20.63"

A) Maximum lift height: 130.0" (11.0')

B) Clearance with bucket dumped: 100.4" (8.4')

C) Reach at maximum height: 28.2"

D) Maximum dump angle: 38.0 deg.

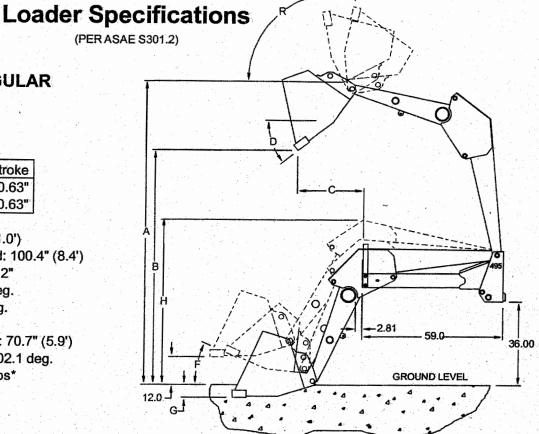
F) Bucket rollback angle: 23.4 deg.

G) Digging depth: 5.5"

H) Overall height in carry position: 70.7" (5.9')

R) Rollback angle at full height: 102.1 deg.

Calculated breakout force: 2500 lbs* Calculated lift capacity: 2075 lbs*



Notes:

- 1) Calculated values assume 2500 psi lift cylinder pressure.
- 2) Breakout force estimated as per ASAE S301.2 4.12 (Net payload applied at cutting edge).
- 3) Lift capacity estimated as per ASAE S301.2 4.11 (Net payload applied at bucket midpoint).
- 4) Average bucket weight (72"): 450 lbs.
- 5) Optional 3" lift cylinders available.
- 6) "Short" models breakout approx. 10% more than corresponding reg. models.

*With 2.5" lift cylinders.

Torque Specifications

Recommended Torque in Foot Pounds (ft-lbs) & Newton Meters (NM)*

	Sta	n	d a	гα			
			. 14 A	Bolt	Head		
Bolt Diameter (inches)	Wrench Size (inches)	(\supset	9.8		8	$\langle \rangle$
			de 2 (NM)		de 5 (NM)		de: 8 (NM)
0.250 1/4	7/16	6	7	8	11	12	16
0.313 5/16	1/2	11	15	17	23	25	33
0.375 3/8	9/16	20	27	31	42	44	60
0.438 7/16	5/8	32	43	49	66	70	95
0.500 1/2	3/4	49	66	76	103	106	144
0.563 9/16	7/8	70	95	109	148	153	207
0.625 5/8	15/16	97	131	150	203	212	287
0.750 3/4	1 1/8	144	195	266	360	376	509
0.875 7/8	1 5/16	166	225	430	583	606	821
1.000 1	1 1/2	250	339	644	873	909	1232
1.125 1 1/8	1 11/16	354	480	795	1077	1288	1745
1.250 1 1/4	1 7/8	500	678	1120	1518	1817	2462
1.375 1.3/8	2 1/16	655	887	1470	1992	2382	3228
1.500 1.1/2	2 1/4	870	1179	1950	2642	3161	4283

M e tric					
Boit Head					
Bolt Wrench Dia. Size (mm) (mm)		4.6	8.8		
		Class 4:6 (ft-lbs) (NM)	Class 8.8 (ft-lbs) (NM)	Class 9.8 (ft-lbs) (NM)	
8	13	7.3 10		21.1 29	
10	16	14.5 20		42 57	
12	18	25 34	74 100	73 99	
14	21	40 54	118 160	116 157	
16	24	62 84	167 226	181 245	
20	30	122 165	325 440		
22	33		443 600		
24	36	211 286	563 763		
27	41		821 1112		
30	46	418 566	1119 1516		

^{*}Use 80% of the specified torque value for plated or lubricated fasteners.

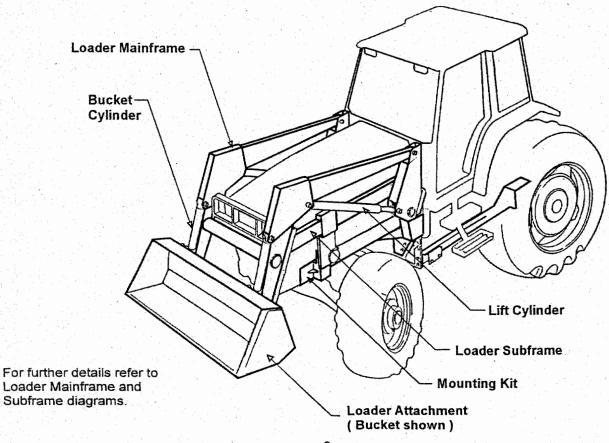
Dealer Pre-delivery Check List

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.
	Declara Cionatura
	Dealer's Signature

This Check List is to remain in this Owner's Manual and is the responsibility of the Dealer to complete before delivery to the customer.

Loader Identification Diagram

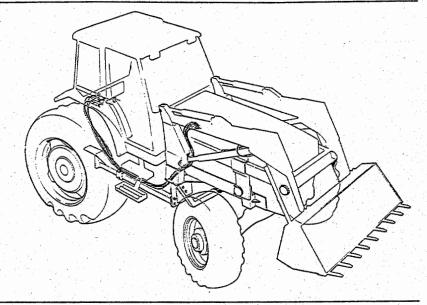


Hydraulic (Hose Kit) Identification Diagrams

HOSE KIT "A"

Loader powered by the tractor remotes.

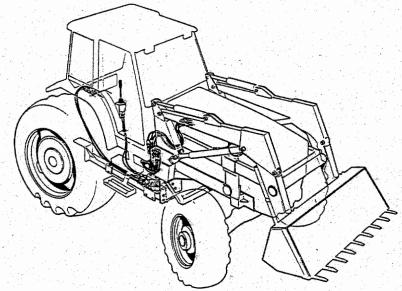
Consists of 4 hoses leading from loader tubing to tractor remote couplers.



HOSE KIT "B"

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

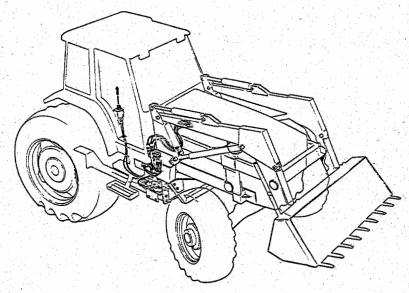
Consists of 4 hoses leading from loader tubing to external mounted valve and 2 hoses from valve to tractor couplers. Use the valve type shown with hose Kit "B".



HOSE KIT "C"

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

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".



REG-04 CDF



IMPORTANT PRECAUTIONS



DANGER





ELECTROCUTION HAZARD

To prevent serious injury or death:

Stay away from power lines and cables.
 Electrocution can occur with or without direct contact.



WARNING



FALLING HAZARD

To prevent serious injury or death:

 Do not lift, carry or allow anyone to ride on or work from any portion of loader.



WARNING



CRUSHING HAZARD

To prevent serious injury or death:

- Do not handle round bales or other shiftable objects unless loader is equipped with an attachment designed for this purpose.
- Do not handle loose loads that are not secured.
- Do not lift load higher than necessary.



WARNING





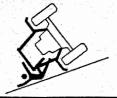
HIGH-PRESSURE FLUID

To prevent serious injury or death:

- Relieve pressure on system before repairing or adjusting or disconnecting.
- Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.
- Keep all components in good repair.
- If hydraulic fluid penetrates skin, obtain medical treatment IMMEADIATELY.



WARNING



ROLL-OVER HAZARD

To prevent serious injury or death:

- Move and turn tractor at low speed.
- Carry load no higher than necessary to clear the ground when transporting.
- · Add wheel ballast or rear weight for stability.
- Move wheels to widest possible settings to increase stability.
- It is recommended the tractor be equipped with a rollover protective structure (ROPS).



WARNING



CRUSHING HAZARD

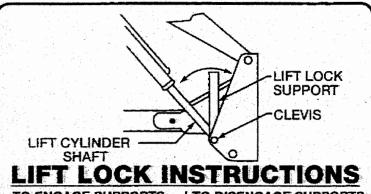
To prevent serious injury or death:

- Do not allow bystanders in loader work area.
- Lower loader to the ground before leaving seat.
- Do not walk or work under raised loader. For servicing, refer to operator's manual.
- Read and understand operator's manual before operating loader.

Safety

BLOCKING RAISED LOADER

 Never work beneath raised loader unless it is securely supported. The following are instructions for the Lift Lock Supports:



TO ENGAGE SUPPORTS:

- RAISE LOADER PAST LEVEL POSITION.
- 2. SECURE SUPPORTS INTO POSI-TION ON THE CLEVIS AND CYLINDER SHAFT.
- 3. SLOWLY LOWER FULL WEIGHT OF LOADER ONTO SUPPORTS.

TO DISENGAGE SUPPORTS:

- 1. RAISE LOADER OFF LIFT LOCK SUPPORTS.
- 2. SWING LOCK SUPPORTS UP INTO STORAGE POSITION.

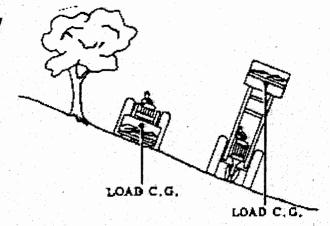


- THE BUCKET MUST BE EMPTY. - ALWAYS USE BOTH SUPPORTS.

- DO NOT USE WHEN TRACTOR IS MOVING.
- DO NOT STORE LIFT LOCK SUPPORTS OTHER THAN WHERE INDICATED. REPLACE IMMEDIATELY IF DAMAGED. 1112982
- Do not pivot or turn tractor with bucket raised. except at a minimum speed. Always make

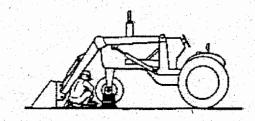
allowance for length of loader when making turns.

- Never leave tractor unattended while the bucket is
 If lift cylinders are used to raise front wheels Always lower bucket to the ground and shut off before leaving 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. Note in above illustration how load center moves out when bucket is raised on a Be alert for terrain changes and adjust bucket accordingly. Keep bucket low, no more than one foot high, as long as possible.

A pivoting front axle acts like a Note: three-wheeled tractor until the stops hit the axle.



of tractor for service, place blocks under tractor before working around front end.

THIS SAFETY ALERT SYMBOL MEANS:

ATTENTION!

BECOME ALERT!

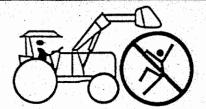
YOUR SAFETY IS INVOLVED!



Safety Decals

These decals are located as shown on the Decal Location diagram and the Sub-Frame Assembly diagram.





OVERHEAD HAZARD STAY AWAY FROM UNDER LIFT ARMS AND BUCKET

To prevent serious injury or death:

- 1. Do not stand or work under a raised loader, unless supported.
- 2. Support bucket and lift arms before working under loader.
- 3. Lower loader to the ground before leaving seat.

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A CAUTION

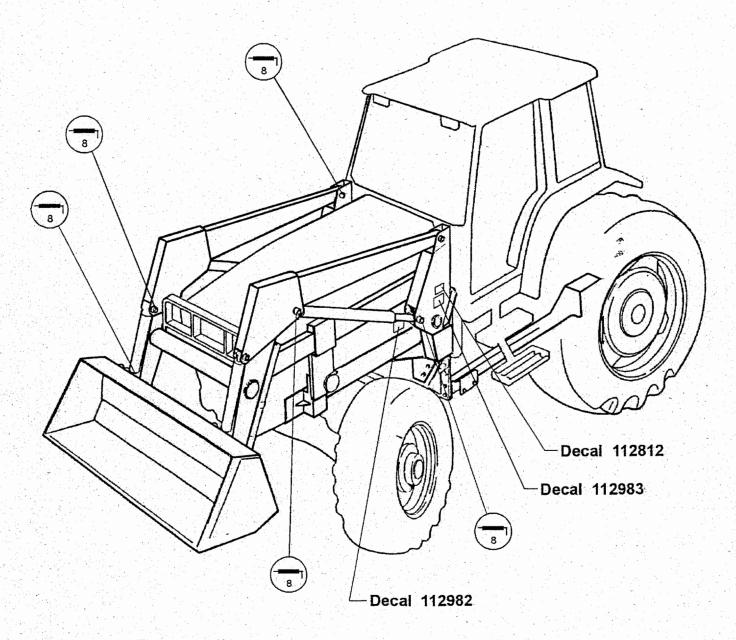
- 1. Read Operator's Manual before operating.
- Move and turn tractor at low speed.
- 3. Carry loader arms at a low position during transport.
- 4. Lower loader arms, stop engine and lock brakes before leaving operator seat.
- 5. Do not stand or work under raised loader, unless properly supported.
- Add recommended wheel ballast or rear weight for stability.
- Move wheels to widest recommended settings to increase stability.
- 8. Do not handle large round bales or other shiftable objects unless loader is equipped with a grapple fork.
- 9. Do not use loader to move or carry people.
- Stay away from power lines. Electrocution can occur without direct contact.
- 11. Review safety instructions annually.

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Lubrication and Decal Location Diagram

Lubricate tractor hydraulic unit as indicated in tractor Operator's Manual. Keep the 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.



Sym

Symbol indicating grease after every 8 hours of operation.

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General Instructions and Information

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.

- 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 of equivalent grade or strength.
- 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.



CAUTION

The pressure of the relief and open centre 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.

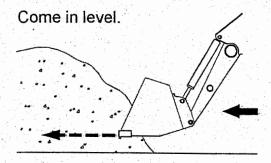
- 8. When servicing any hydraulic components, care must be taken to prevent any foreign matter from entering the system.
- Do not neglect oil leaks. Leaks affect loader operation, are dangerous and can result in personal injury or damage to the hydraulic system.
- 10. Never leave the cylinder shafts exposed when loader is not in use.
- 11. Worn or damaged components should be replaced as soon as possible with only the manufacturer's recommended component or equivalent.

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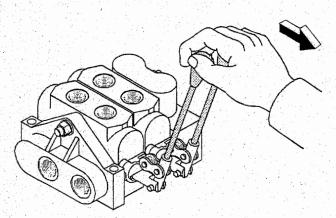
Operating Suggestions For Loading

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.



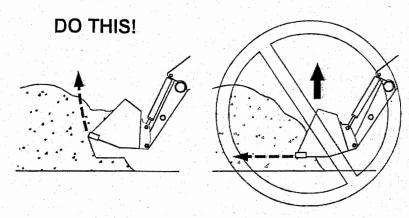
NOTE: Bottom surface of bucket is parallel to line on motion.



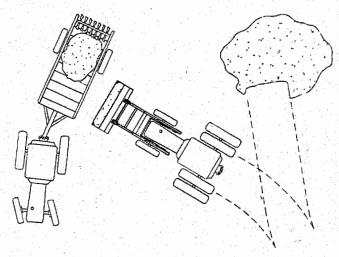
Work both levers back to direct pressure to both cylinders.

Combined action of lift and bucket cylinders increases loading efficiency.

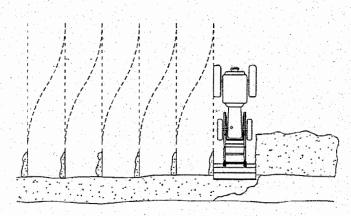
NOT THIS!



A straight bottom offers more resistance to lift.

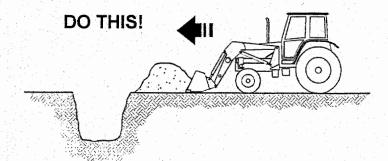


To increase loading efficiency, minimize angle of turn and length to run between pile and spreader.

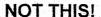


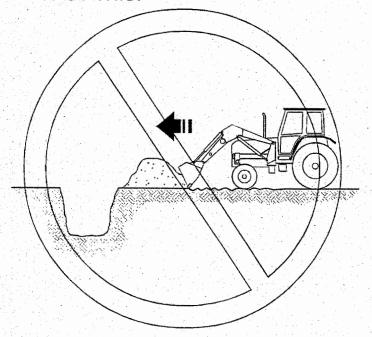
Leave material which drifts over side of bucket for final clean-up.

Operating Suggestions For Backfilling

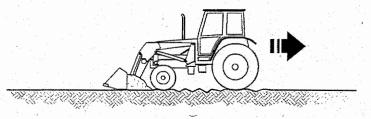


When backfilling, approach pile with a flat bucket. Leave dirt in bucket. Dumping on each pass wastes time.





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.



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 dump position for backgrade work. This could cause bucket cylinder shaft failure.

WARNING!

DO NOT USE LOADER AS BATTERING RAM!



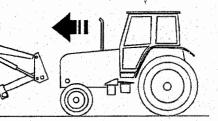
SAFETY: FIRST, LAST, ALWAYS!

Attaching the Loader to Your Tractor

- Position 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 subframes are in line with the holes.

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.



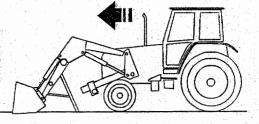


IMPORTANT! On HSL loaders, the bucket will dump at the same time the loader is lowered. Therefore, operate both hydraulic levers together.

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



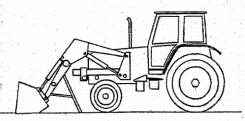
WARNING! Check front grill clearance during installation to avoid tractor damage.



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



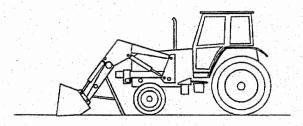
IMPORTANT! On HSL loaders, the bucket will roll back at the same time the loader is lowered. Therefore, operate both hydraulic levers together.



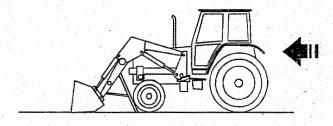
Attaching the Loader to Your Tractor

(Continued)

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.

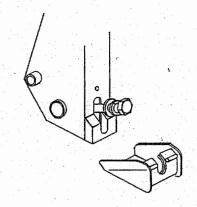


7. Continue to drive the tractor forward until the subframe uprights are seated in the boot.



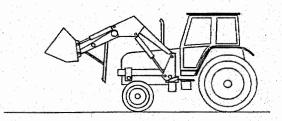
8. Secure the subframe uprights with the bolts and washers. Torque to 500 ft-lbs.

IMPORTANT: 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 into the up position.

NOTE: 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

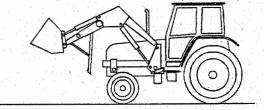


WARNING! When removing the loader, it must be fitted with a bucket or other suitable attachment to give the frame stability after removal. If this is not done, the frame will not remain standing.

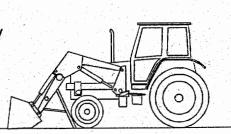


IMPORTANT! Always remove the loader on firm, level ground (away from children's play areas and high traffic areas). This makes attaching and removing much faster and easier. It also makes the free standing loader more stable.

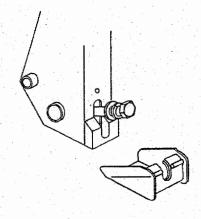
 Raise the loader, lower support stand tubes and lock into position.



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 a slightly downward pressure.

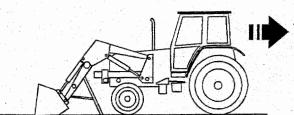


3. Loosen the bolts from the rear of the subframe boots and swing bolt up into lock position.



Removing the Loader from Your Tractor (Continued)

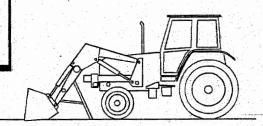
 Roll back the bucket slightly and simultaneously extend or retract the lift cylinders to free hooks from spools. Then slowly back up the tractor.



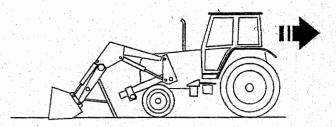
5. Once the subframe is clear of the boot and the hook is clear of the mounting boss, roll back the bucket all the way. This raises the rear uprights of the loader.



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



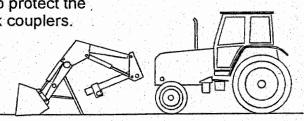
6. Continue backing up until the loader is clear.





CAUTION! 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.



Operation and Maintenance

GENERAL

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.

CAUTION: 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 widening the rear wheels, reduces the risk of roll-over.

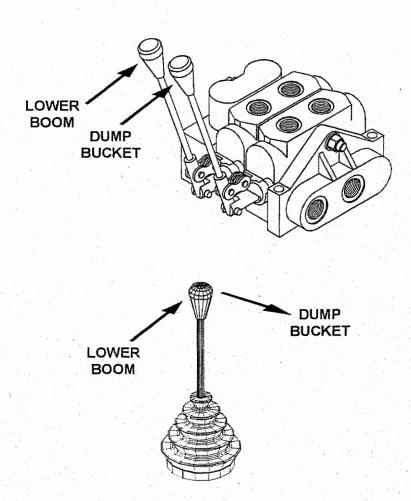


WARNING

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.

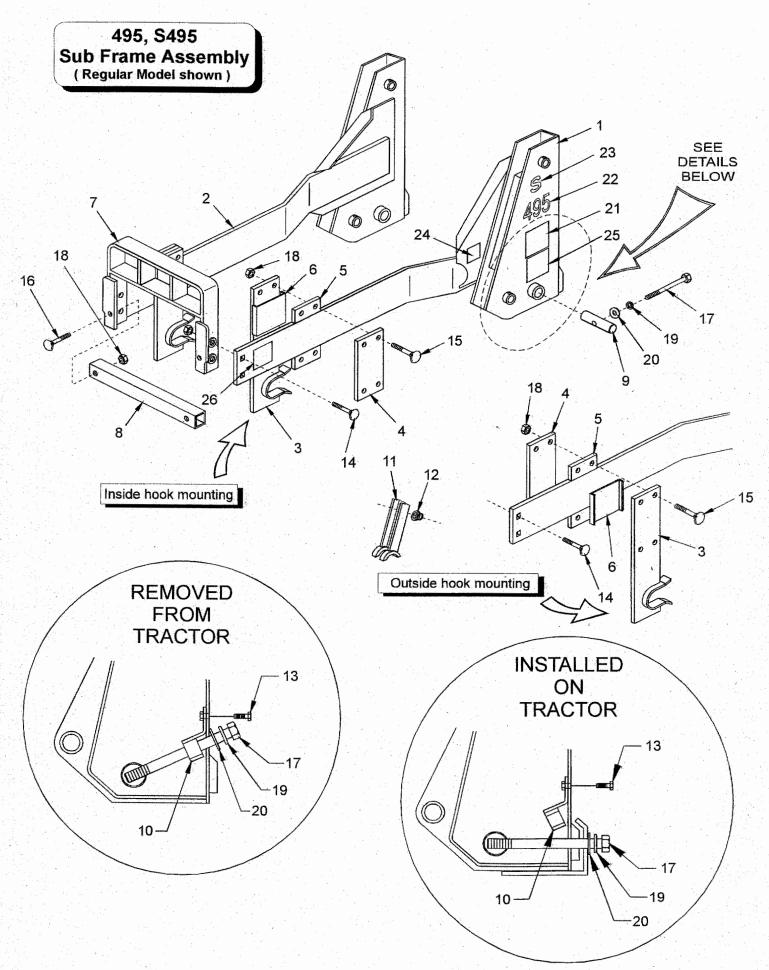


In cold weather, operate the tractor's engine at idle speed until the hydraulic fluid is warmed up. High engine speed when the hydraulic fluid is cold will cause the pump to wear prematurely.

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.

Trouble Shooting

PROBLEM	POSSIBLE CAUSE	REMEDY
Loader slow and/or will not dump.	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,
	On the restricted of leaking.	damage or restrictions. Replace damaged or restricted hoses or tube lines.
용인된 밤 나를 하는 이번째 나라 그	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.
그리다 그가 그러워 그리는 얼굴을 보다.	Cylinder leaks internally.	Replace seals.
	Faulty valve.	Repair or replace valve.
Loader chatters or vibrates when	Air leak in pump inlet line.	Check, tighten or replace inlet line.
raising and lowering.	Air in hydraulic system.	Cycle lift cylinders and bucket cylinders.
교람들 날아내다 그 이 보고 하다면 다른	Oil level too low.	Add oil as required.
Excessive movement at pivots	Worn bushings and/or pins.	Replace bushings and/or pins.
Pump noisy	Inlet line restricted or leaking.	Check for air leaks, restrictions or collapsed
		hose. Tighten or replace hose. Clean
		filter if necessary.
	Oil level too low.	Add oil as required.
	Pump worn or damaged.	Repair or replace pump.
Oil leaks.	Damaged fittings or hoses.	Replace damaged parts.
	Loose connections.	Tighten fittings.
[편구를 잃고 말이 되는 편집	Worn or damaged O-ring wiper	Install a seal repair kit.
	seal in cylinder rod end.	
	Worn or damaged O-rings in valve.	Install an O-ring repair kit.
Insufficient lift capacity	Improper hydraulic pump operation.	Repair or replace pump.
마루마시 하나 하는데 그런 그리고 있는데?	Load is greater than boom lift capacity	. Check loader specifications.
	Internal boom cylinder leakage.	Replace any worn parts and install
		a seal repair kit.
생활 경기 등 하는 사람들이 되었다.	Improper hydraulic valve operation.	Repair or replace valve.
Slow leakdown.	Worn control valve.	Have authorized dealer replace seals.
[쾌경 : 종류 : 2011] 12 (12 12 12 12 12 1	Worn cylinder piston seals.	Have authorized dealer replace seals.
Excessive wear on bottom oil 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.
Pump operating continually on closed center tractor hydraulic system.		See your tractor manual for proper
center tractor riyuradiic system.	open.	adjustment or Loader dealer for loader valve. (3000 PSI is maximum pressure
	Hydraulic control valve set too low.	relief setting recommended.) Adjust valve in accordance with manual.
Loader lift and bucket tilt controls do	Hoses improperly connected.	Refer to plumbing diagrams
not work according to decal.		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
Tractor loads/pump squeals	Closed center control valve on open center tractor.	Install open center plug on optional valve. Replace closed center plug with relief and install short plug in place of power beyond adapter.



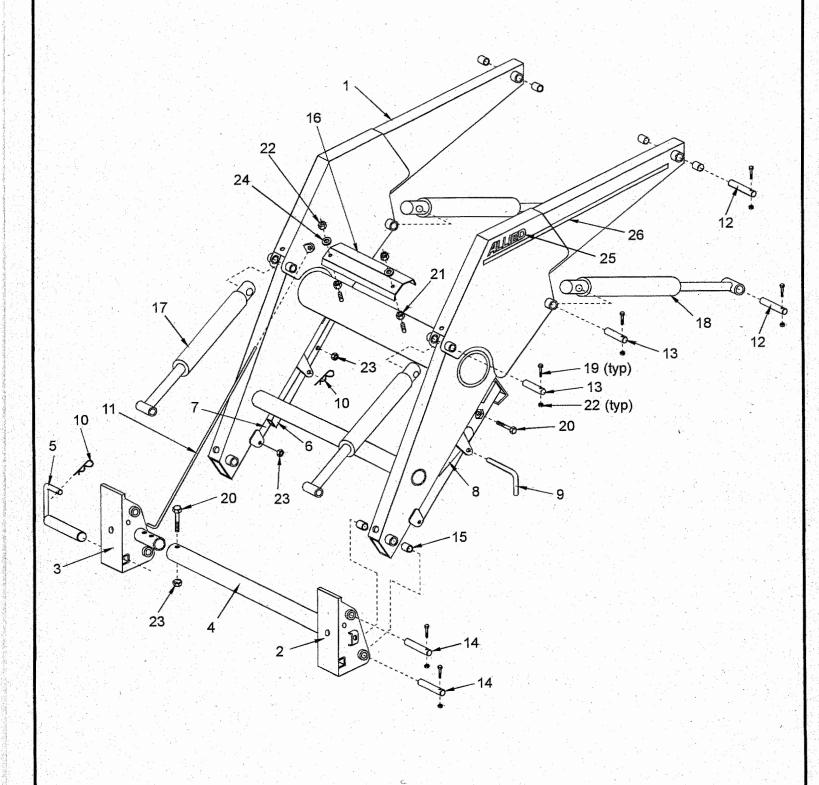
495, S495

Sub Frame Parts Table

Item	Part No.	Description	495	S495
1	31607	495 Sub Frame Weldment Left	1	_
2	31606	495 Sub Frame Weldment Right	1	_
1	31611	495 S Sub Frame Weldment Left	7-	1
2	31610	495 S Sub Frame Weldment Right	-	1
3	113253	Hook Weldment	2	16
4	112747	Plate Clamp	2	16
5	112746	Spacer Block	4	4
6	112748	Shim	2	2
7	112663	Cross Member Weldment	1 -	1
8	112668	Tube Cross Member	1	1
9	112642	Shaft Pivot 1.75 Dia x 5.50 Long	2	2
10	113281	Bolt Retainer Weldment	2	2
11	110887	Loader Lift Lock Weldment	2	2
12	812717	Grommet 0.375 ID x 1.00 OD x .13	2	2
13	812026	Bolt Hex 0.313nc x 1.00 gr5 pl	2	2
14	812882	Bolt Car. 0.625nc x 2.50 gr5 pl	4	4
15	812944	Bolt Car. 0.625nc x 3.00 gr5 pl	8	8
16	84127	Bolt Car. 0.625nc x 3.50 gr5 pl	2	2,
17	812939	Bolt Hex 0.875nc x 10.00 gr8 pl	2	2
18	81967	Nut Lock (Nylon) 0.625nc gr8 pl	14	14
19	81723	Washer Lock 0.875 pl	2	2
20	112730	Washer Boot	2	2
21	112812	*Decal - General Caution	2	2
22	113385	*Decal - 495 x 1.40	2	2
_23	112615	*Decal - S x 1.40	-	2
24	112982	*Decal - Lift Lock Instructions	2	2
25	112983	*Decal - Warning Overhead Hazard	2	2
26	113474	*Decal - Cross Member Caution	2	2

^{*}Part of decal replacement kit X1245

495, S495 Main Frame Assembly (Regular Model shown)



495, S495

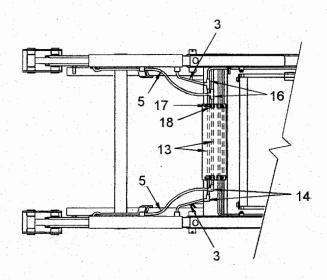
Main Frame Parts Table

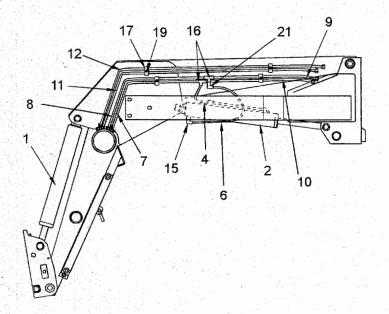
Item	Part No.	Description	495	S495
1	31605	495 Main Frame Weldment	1	-
1	31609	S495 Main Frame Weldment	•	1
2	24296	Quick Attach Weldment Left	1	1
3	24297	Quick Attach Weldment Right	1	1
4	112798	Tube Cross Qtach	1	1
5	108827	Pin Weldment	2	2
6	113433	Stand Weldment	2	2
7	113114	Strap Stand	2	2
8	24329	Wrench Mounting	1	1
9	110907	Pin 0.625 Dia. Stand	2	2
10	12779	Hair Pin Clip #9 Western Wire	5	5
11	11325	Levelling Rod (54.0")	1	1
12	112954	Pin 1.25 Dia. x 6.75 Long	4	4
13	112955	Pin 1.25 Dia. x 5.00 Long	4	4
14	112800	Pin Qtach	4	4
15	113766	Bushing 1.25 ID x 1.50 OD x 1.375 Long	8	8
16	24242	Tube Cover	1	1
17	24458	2.5 Dia. x 20.63 Bucket Cylinder	2 .	2
18	24476	2.5 Dia. x 20.50 Lift Cylinder	2	2
19	81581	Bolt Hex 0.375nc x 2.50 gr5 pl	16	16
20	81669	Bolt Hex 0.625nc x 3.50 gr5 pl	4	4
21	81592	Nut Hex 0.375nc gr2 pl	4	4
22	81344	Nut Lock (nylon) 0.375nc grB pl	20	20
23	81967	Nut Lock (nylon) 0.625nc grB pl	6	6
24	81570	Washer Flat Std 0.375 hs pl	4	4
25	112614	*Decal - Allied x 1.75	2	2
_26	52281-000	*Bright Orange Scotchcal #72368	10 ft	10 ft
27	113488	*Decal - Quick Attach Instruction	2	2

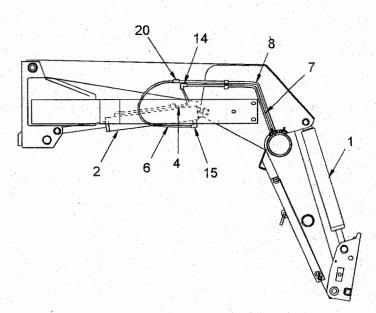
^{*}Part of decal replacement kit X1245

495, S495 Loader Hydraulic Plumbing Diagram

(Regular Model shown)







495, S495 LOADER

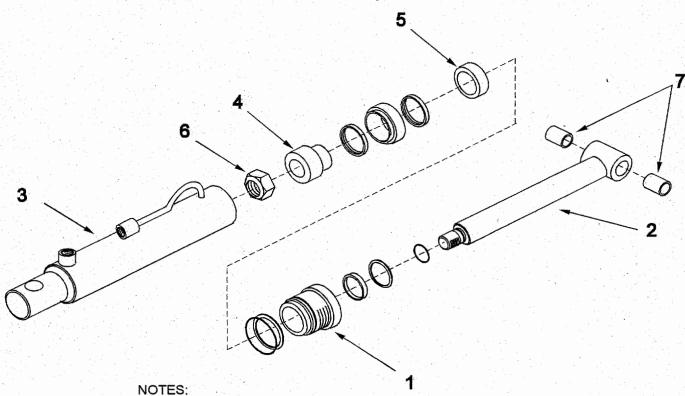
Plumbing Parts Table

Item	Part No.	Description	Qty.
1.	24458	2.5 Dia. x 20.63 Cyl. Assy. Bucket	2
2	24476	2.5 Dia. x 20.63 Cyl. Assy. Lift	2
3	812973	3/8 x 12" Hose 3/4 MORB x 3/4 SWFJIC	2
4	811572	3/8 x 15" Hose 3/4 MORB x 3/4 SWFJIC	2
5	812703	3/8 x 22" Hose 3/4 MORB x 3/4 SWFJIC	2
6	812697	3/8 x 24" Hose 3/4 SWFJIC x 3/4 SWFJIC	2
7	113346	Tubing - Lift Cyl. Bottom Raise	1
8	113347	Tubing - Lift Cyl. Top Drop	1
9	113031	Tubing - Lift Cyl. Common (23.0")	1
10	112937	Tubing - Lift Cyl. Comm. (31.0")	1
11	113348	Tubing - Bucket Cyl. Bottom Rollbk	1
12	113349	Tubing - Bucket Cyl. Top Dump	1
13	112837	Tubing - Bucket Cyl. Cross Tube	2
14	812128	Elbow 90 3/4 MJIC x 3/4 MJIC	4
15	811414	Elbow 90 3/4 MORB x 3/4 MJIC	2
16	812069	Tee 3/4 MJIC	4
17	11362	Clip Pipe Std	11
18	81592	Nut Hex 0.375nc gr2 pl	4
19	81344	Nut Lock (nylon) 0.375nc grB pl	9

495, S495 **Hydraulic Cylinder Assembly**

Description	Bud Cylin	ket ders	Lift Cylinders		
Diameter	2.50"	3.00"	2.50"	3.00"	
Length of Stroke	20.63"	20.63"	20.63"	20.63"	
Retracted Length	33.00"	33.00"	38.00"	38.00"	
Extended Length	53.63"	53.63"	58.63"	58.63"	
Cylinder Assembly No.	24458	24407	24476	24479	
Seal Kit No.	X1110	X9946	X1110	X9947	
Shaft Diameter	1.50"	1.50"	1.50"	1.75"	

Item	Description	Pa Num			art nber
1	Head Plate	24455	24306	24455	23791
2	Shaft Weldment	113120	113120	113218	113123
3	Cylinder Tube Weldment	24459	24409	24477	24480
4	Piston Half (wide)	113217	112862	113217	112862
5	Piston Half (narrow)	113216	112863	113216	112863
6	Self- Locking Nut	810457	810457	810457	810457
7	Shaft Bushing	113766	113766	113766	113766



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



CAUTION: Maximum pressure - 2750 psi

WARNING!

LOOK OUT FOR CHILDREN.
TEACH YOUR CHILDREN SAFETY.
(INFORM THEM OF DANGERS AROUND MACHINES)

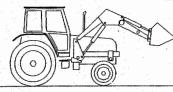
MANUAL MUST BE READ AND UNDERSTOOD BY OPERATOR.



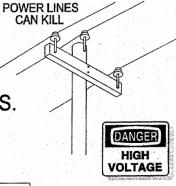
TRANSPORT

EMBLEMS MUST BE VISIBLE

ALWAYS MOVE EQUIPMENT IN LOW OR DOWN POSITION ESPECIALLY AROUND POWER LINES.



NEVER LEAVE EQUIPMENT IN RAISED POSITION.

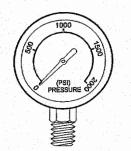


SERVICE

SERVICE EQUIPMENT ONLY WHEN STOPPED AND WITH LIFT LOCKS IN PLACE AS SHOWN.

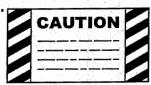
KEEP ALL GUARDS AND SHIELDS IN PLACE.

REPLACE DAMAGED OR WORN PARTS. FRAYED CABLES AND HOSES ARE DANGEROUS.



DO NOT CHANGE FACTORY SETTINGS.

KEEP DECALS CLEAN AND LEGIBLE. (REPLACEMENTS NORMALLY AVAILABLE)



LIFT LOCK

DIVISION LOCATIONS

Allied Division 1201 Regent Ave. W. Box 1003

Winnipeg, MB R2C 3B2 Ph.: (204) 661-8711 Fax: (204) 654-2503

Farm King Division 301 Mountain Street S. Morden, MB R6M 1X7 Ph.: (204) 822-4467 Fax: (204) 822-6348

Inland Division 675 Washington Ave. Winnipeg, MB R2K 1M4 Ph: (204) 667-7854 Fax: (204) 669-2599

B.I.I. Division 1330 43rd Street N.W. Fargo, ND 58102 Ph: (701) 282-7014 Fax: (701) 282-5865

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AR, West Memphis (870) 732-3132

GA, Stone Mountain (770) 908-9439

IA, Lakeview (712) 657-8585

ID, Meridian (208) 887-6006

IN, Clarksville (812) 284-3376

KS, Wichita (316) 265-9577

MN, Lakeville (952) 469-5267

MT, Billings (406) 248-7771 ND, Bismarck (701) 223-1886

ND, Fargo (701) 282-7003

NY, Syracuse (315) 463-5276

OH, Youngstown (330) 793-0862

OR, Portland (503) 234-0378

SD, Huron (605) 352-8616

TX, Houston (713) 928-2632

UT, Salt Lake City (801) 972-4321

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Burando Hill Katanning W. Australia 011-618-98-214422

Chihuahua, Mexico 011-52-158-90306 John Kerr Equipment Ltd. Wilcoxholm Farm Linlithgow, W. Lothian Scotland 011-441-506-842280

Skovde, Sweden 011-46-500-452651

Naestved, Denmark 011-45-557-29511

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