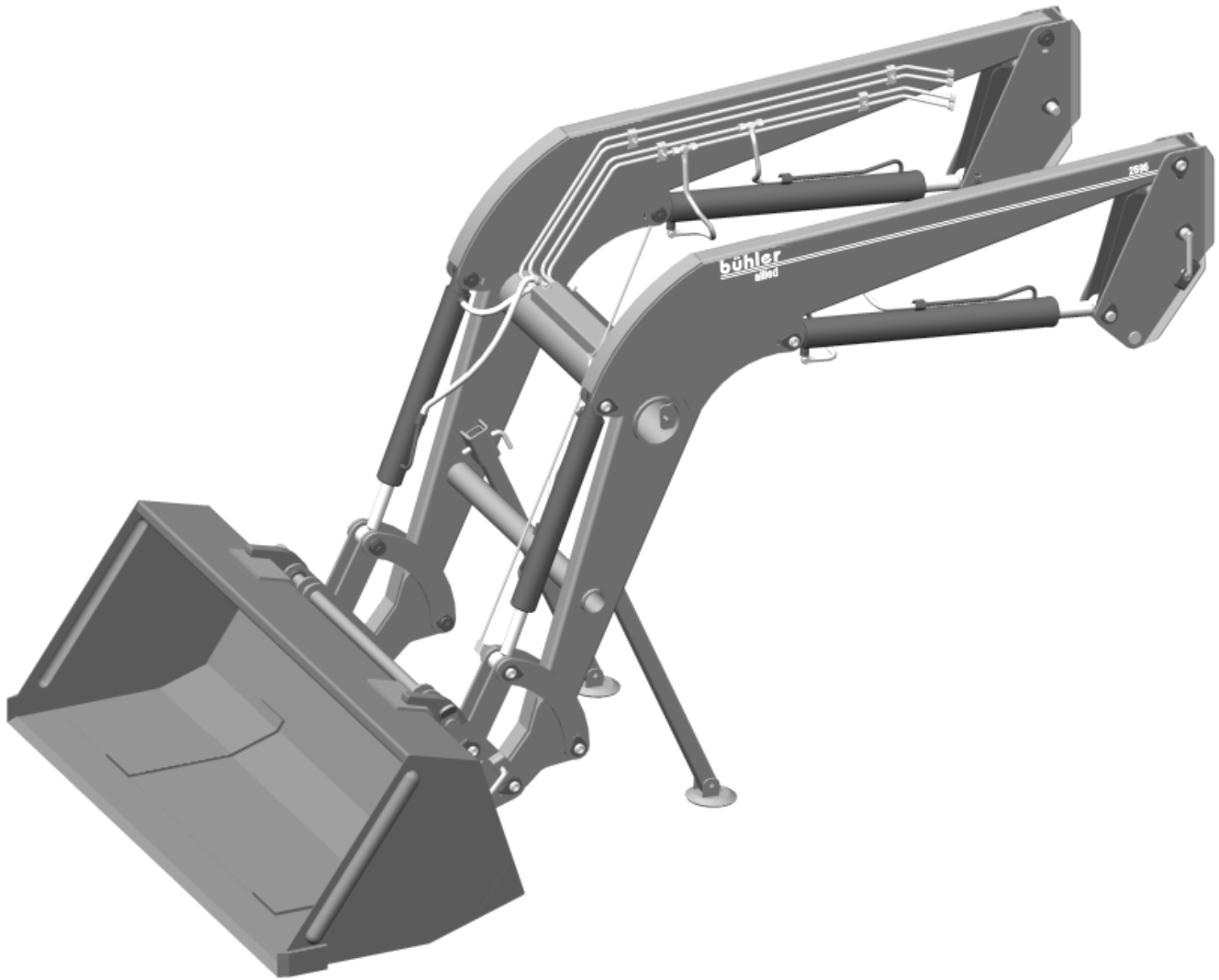


bühler

allied



Model 2795

For serial numbers 0327950175 and later.

Operator's and Parts Manual
Front-End Loader
P4009

09/03

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

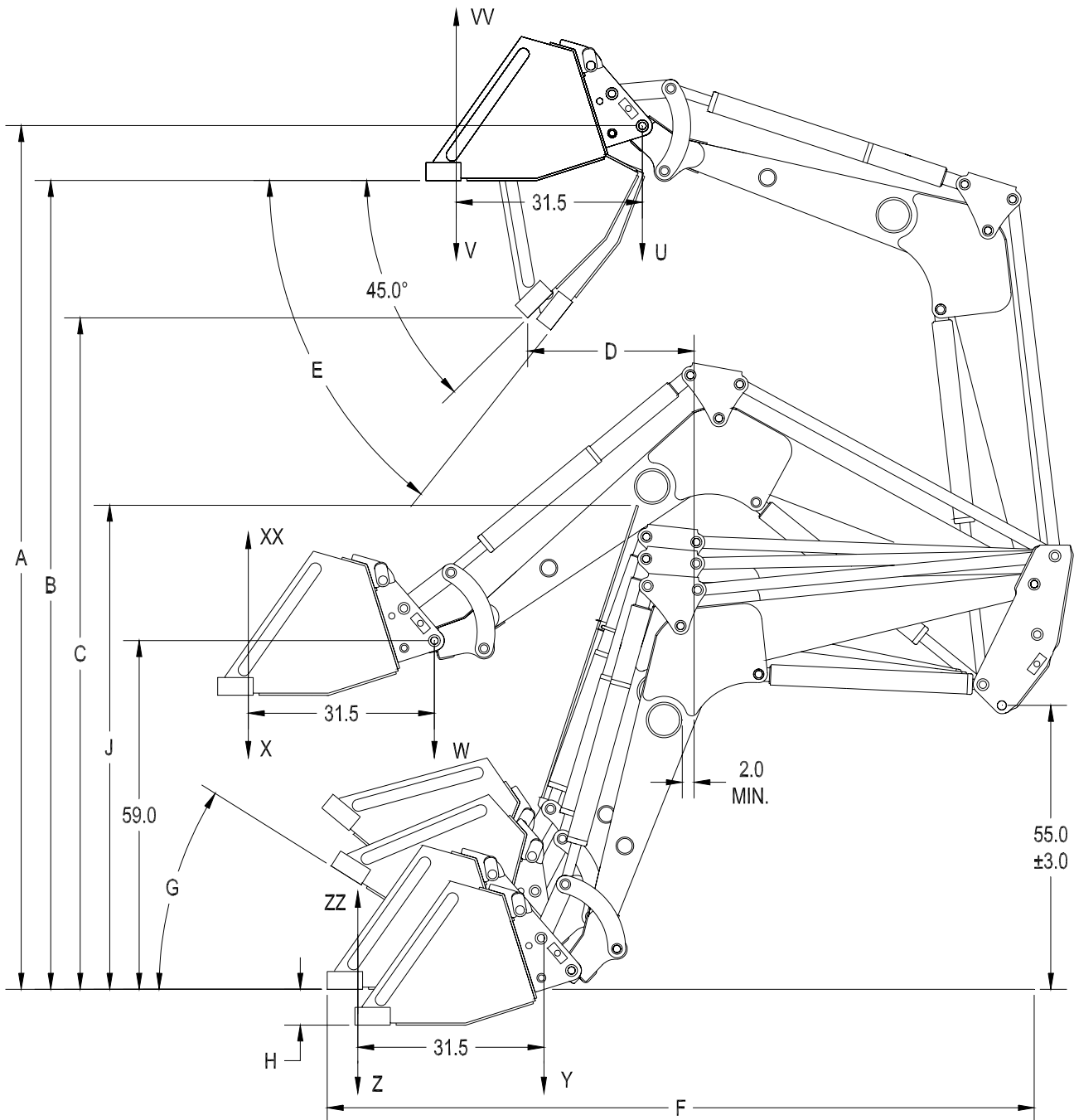
2795 OPERATOR'S AND PARTS MANUAL

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LOADER SPECIFICATIONS

Illustration (TSL shown)



Specification Chart

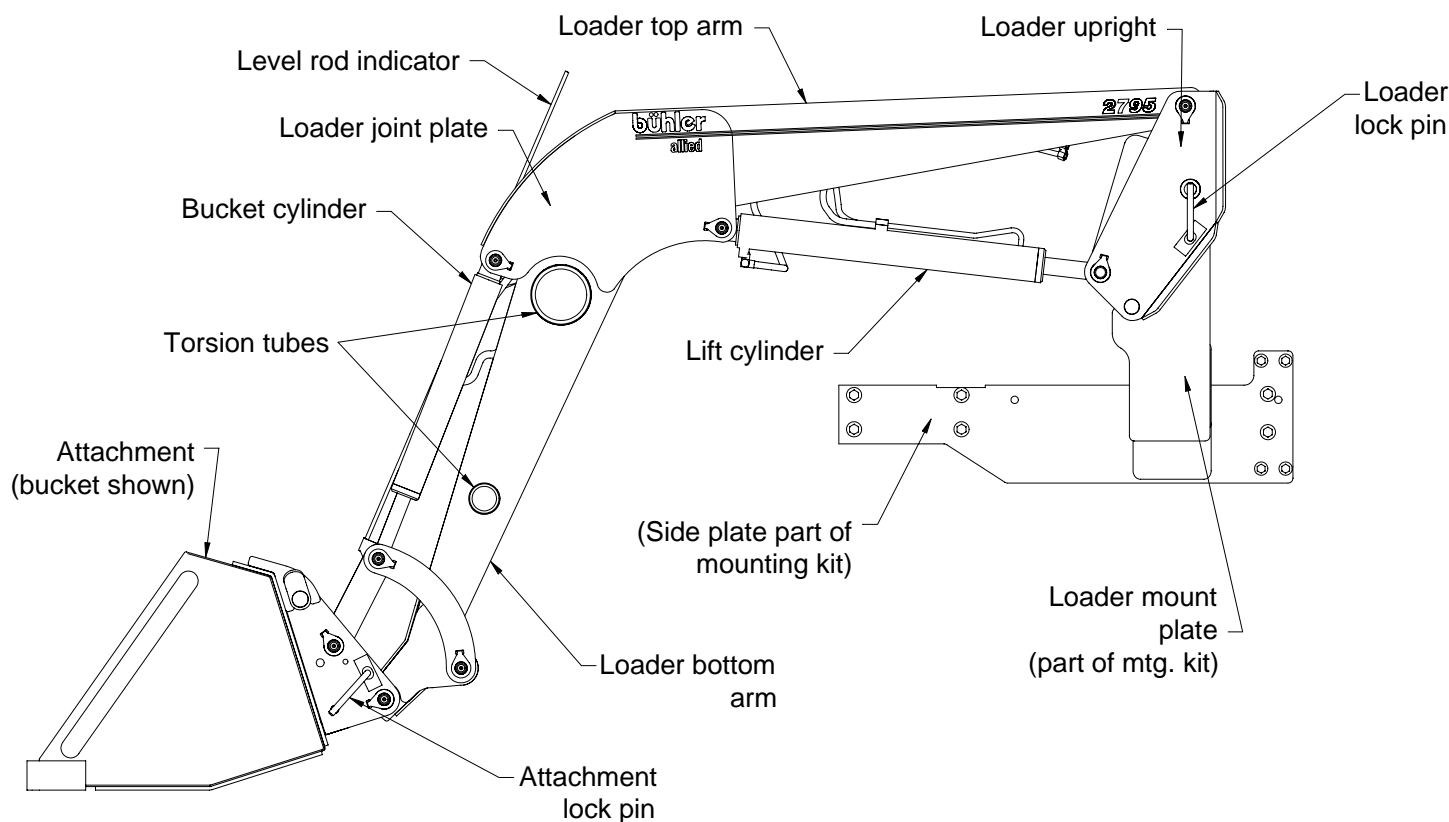
Item	Description	2795 REG	2795 TSL	2795S REG	2795S TSL
A	Maximum lift height to pivot pin [in/cm]	164/417	164/417	157/399	157/399
B	Maximum lift height under level bucket [in/cm]	154/391	154/391	147/373	147/373
C	Clearance with bucket dumped [in/cm]	130/330	130/330	123/312	123/312
D	Reach at maximum lift height [in/cm]	29/74	29/74	37/94	37/94
E	Maximum dump angle [deg]	50	50	50	51
G	Maximum rollback angle [deg]	34	34	34	34
H	Digging depth [in/cm]	5.0/12.7	5.0/12.7	4.0/10.2	4.0/10.2
J	Overall height in carry position [in/cm]	86/218	87/221	86/218	87/221
U	Lift capacity to maximum height - at pivot pin [lb/kg] <i>optional cylinder</i>	3685/1671 5430/2463	3680/1669 5420/2458	3770/1710 5545/2515	3760/1705 5535/2511
V	Lift capacity to maximum height [lb/kg] <i>optional cylinder</i>	2610/1184 3840/1742	2605/1182 3840/1742	2660/1207 3910/1774	2655/1204 3905/1771
W	Lift capacity to 59 in. height - at pivot pin [lb/kg] <i>optional cylinder</i>	5010/2272 7310/3315	5020/2277 7320/3320	5350/2427 7765/3522	5355/2429 7770/3524
X	Lift capacity to 59 in. height [lb/kg] <i>optional cylinder</i>	3915/1776 5710/2590	3920/1778 5715/2592	4130/1873 5990/2717	4130/1873 5995/2719
Y	Breakout force - at pivot pin [lbf/daN] <i>optional cylinder</i>	6440/2864 9310/4141	6460/2873 9335/4152	7145/3178 10265/4566	7160/3185 10275/4570
Z	Breakout force [lbf/daN] <i>optional cylinder</i>	4780/2126 6910/3074	4795/2133 6925/3080	5185/2306 7445/3312	5190/2309 7455/3316
VV	Bucket rollback force at maximum height [lbf/daN] <i>optional cylinder</i>	4245/1888	4335/1928	4250/1890	4340/1930
XX	Bucket rollback force at 59 in. lift height [lbf/daN] <i>optional cylinder</i>	6480/2882	6360/2829	6445/2867	6340/2820
ZZ	Bucket rollback force at ground line [lbf/daN] <i>optional cylinder</i>	6385/2840	6065/2698	6370/2833	6050/2691
	Raising/Lowering time [sec] <i>optional cylinder</i>	4.4/2.8 6.3/4.2	6.3/4.2	4.4/2.8 6.3/4.2	6.3/4.2
	Bucket dumping/rollback time [sec] <i>optional cylinder</i>	3.7/2.3 5.3/3.5	4.1/2.7	3.7/2.3 5.3/3.5	4.1/2.7
	Lift cylinder tube/shaft size [in] <i>optional cylinder</i>	2.50/1.50 3.00/1.75	3.00/1.75	2.50/1.50 3.00/1.75	3.00/1.75
	Lift cylinder stroke/retracted length [in]	25.75/38.00	25.75/38.00	25.75/38.00	25.75/38.00
	Bucket cylinder tube/shaft size [in] <i>optional cylinder</i>	2.50/1.50 3.00/1.75	3.00/1.75	2.50/1.50 3.00/1.75	3.00/1.75
	Bucket cylinder stroke/retracted length [in]	21.50/31.00	16.75/46.25	21.50/31.00	16.75/46.25
	Mounting Height (+/- 3.0) [in]	55			
	Hydraulic pressure rating/flow rate [psi]/[gpm]	2500/15			
	Tractor size [H.P. @ normal duty]	75-150			
	Bucket size [in/cu.ft.] - * Indicates bucket size used for calculations of lift capacities and rollback forces.	72/27.0 84/30.5* 96/37.3			
	Weight (with bkt & mtg kit) [lb/kg]	2800/1270			

NOTE: Specifications are subject to change without notice or obligation.

INTRODUCTION

This manual has been provided as information regarding the specifications, safe operation and maintenance of your agricultural front-end loader. Read and understand this manual and the *tractor manual* prior to operating to obtain the best use of operating your loader. Keep this manual for reference and to forward to new operators and owners. Contact your local Buhler - Allied dealer if you require any assistance, information or additional manuals.

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



Loader Identification Illustration (2795 shown)

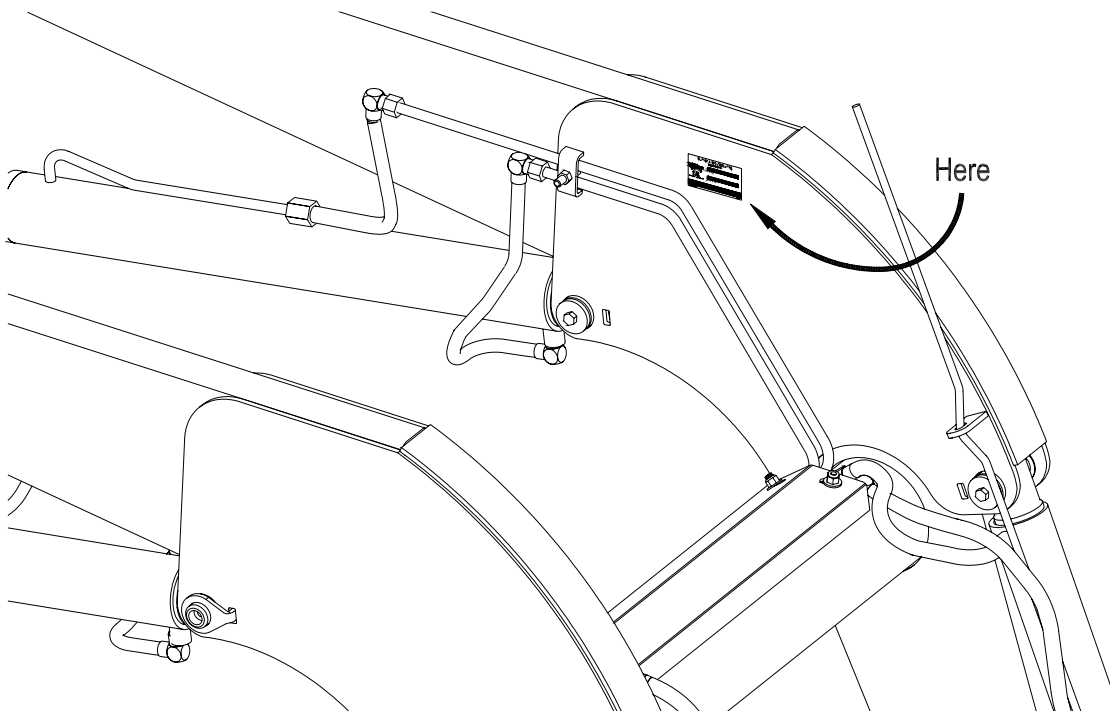
Some components are identified as “right” and “left”. This is determined as seated in the tractor and facing forward, loader end.

Serial Decal Location: The serial decal is located on the inside left arm of the loader joint plate. Please record the serial number in the space provided for future reference. The serial decal will provide the model and date of manufacture of the loader and will be required to obtain correct replacement parts and complete warranty claims.

For your records, record

Serial Number here: _____

Buhler Manufacturing "a partnership"	
bühler farm king allied inland <small>WINNIPEG - MORDEN MB.</small>	MODEL N°: _____
	SERIAL N°: _____
MADE IN CANADA 105420	



Warranty Registration: The *Warranty Registration and Delivery Report* **MUST** be completed within thirty (30) days of delivery to validate the warranty.

SAFETY

Read and understand all the safety messages listed in this manual. For your safety and the safety of others near the machine, learn how to control and operate the loader properly. It is your responsibility to inform subsequent operators and owners of these precautions.

General Safety Notes:

- ✓ Improper use of the loader and tractor can cause serious injury or death.
- ✓ Operate the loader while seated in the tractor seat only.
- ✓ Keep the work area clear of other persons.
- ✓ Never leave the tractor unattended while the attachment is raised. Always lower the attachment to ground and shut tractor off before leaving the tractor seat.
- ✓ Never work beneath a raised loader unless it is securely supported. The control lever can be moved or a hydraulic leak could cause the loader to drop resulting in serious injury or death. Refer to the *Lift Lock Instructions Decal* for proper use of the lift locks.
- ✓ Prior to use, check to ensure the attachment is properly locked to the quick-tach. Verify from tractor seat by lowering the attachment to the ground and retracting the lift cylinders.
- ✓ Never operate loader with frayed or damaged hoses or leaking fittings. A burst could cause the loader to drop suddenly and result in serious injury or death and cause damage to the loader or tractor.
- ✓ Keep tractor on solid ground when raising loader. Loose fill rocks and holes can be dangerous for loader operation and movement.
- ✓ If for some reason, you feel the tractor tipping, immediately lower the loader.
- ✓ A pivoting front axle acts like a three-wheeled tractor until the stops hit the axle.
- ✓ Space rear tires as recommended by the tractor manufacturer. Maximize width for high lift applications and uneven terrain.
- ✓ Add rear ballast as required to ensure 25% of gross vehicle weight is transferred to the rear axle. Loader, attachment and payload must be included as weight.
- ✓ Do not raise attachment to extreme heights while tractor is on an incline. Be alert for terrain changes and adjust accordingly. Keep attachment at low travel height, no more than one foot, as long as possible.
- ✓ Allow for attachment and loader length when turning.
- ✓ The tractor must be equipped with an approved Roll Over Protection Structure (ROPS) and safety belts.
- ✓ Use proper lighting and safety warnings when transporting equipment on public roads and during darkness. The Slow Moving Vehicle (SMV) emblem must be visible. Check with your local Law Enforcement Agency for specific requirements.

Safety Decals: *Safety Decal Location* illustrates the approximate location and detail of safety decals. To install safety decals 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. Keep all decals clean and replace any that are damaged or missing. Replacement decals are available from your local dealer.

Important Precautions: The alert symbol is used throughout this manual. It indicates attention is required and identifies hazards; your safety is involved. Follow the recommended precautions.



The safety alert symbol indicates ATTENTION ! BECOME ALERT ! YOUR SAFETY IS INVOLVED ! The symbol appears in conjunction with statements and signs.

CAUTION

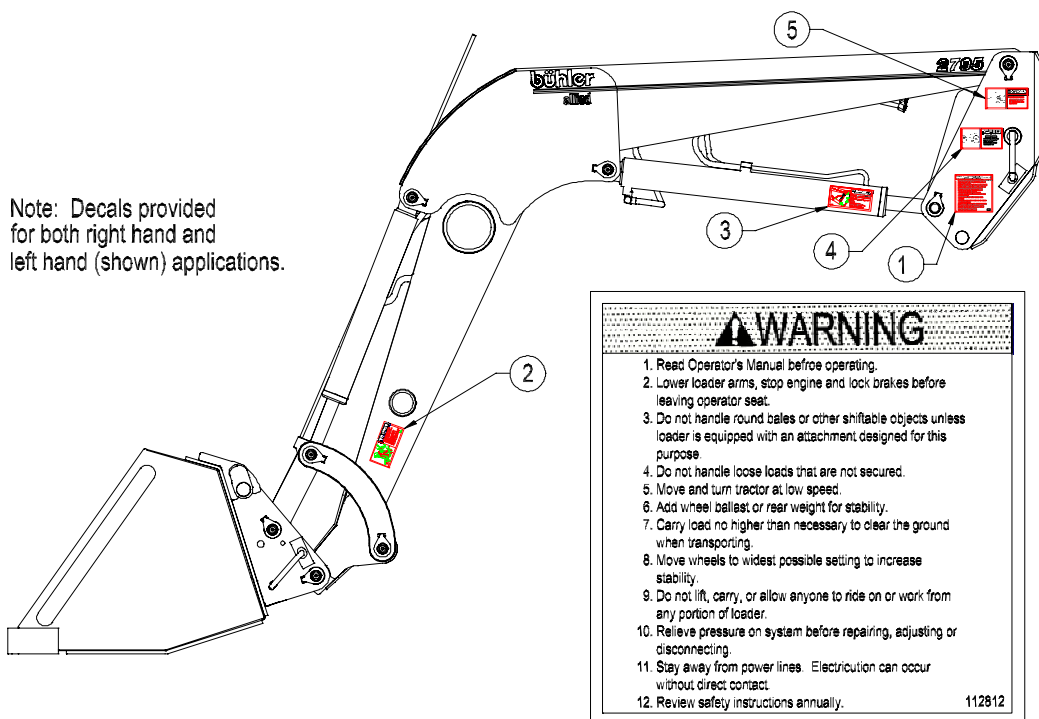
The caution symbol indicates a potentially hazardous situation, which may result in injury. It may also be used to alert against unsafe practices.

WARNING

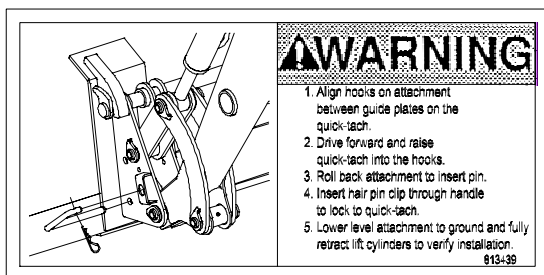
The warning symbol indicates a potentially hazardous situation, which could result in death or serious injury and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

DANGER

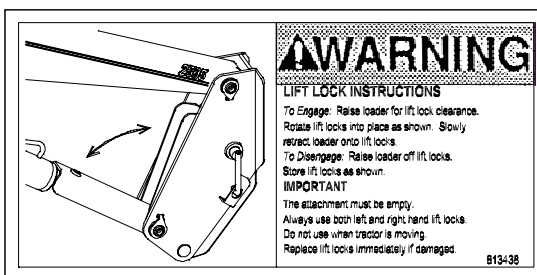
The danger symbol indicates an imminently hazardous situation, which will result in death or serious injury. This signal word is limited to the most extreme situations, typically for machine components, which, for functional purposes, cannot be guarded.



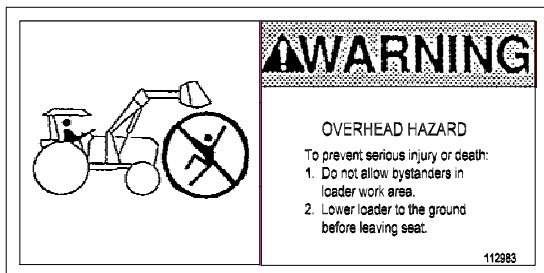
① Part # 112812



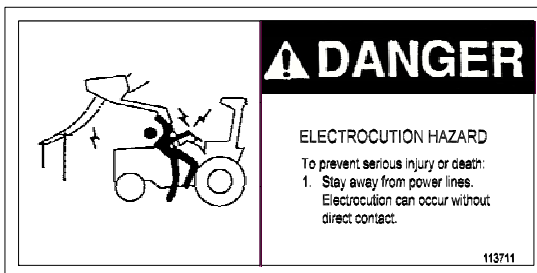
② Part # 813439



③ Part # 813438



④ Part # 112983



⑤ Part # 113711

Safety Decal Location

The following pictorials indicate important precautions to be used during the operation of the loader.

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 IMMEDIATELY.

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.

PRE – OPERATION

⚠ WARNING The tractor must be equipped with an approved Roll over Protection Structure (ROPS) and safety belts to help prevent personal injury or death caused by tractor roll over.

⚠ CAUTION Maximum rated loader capacity may exceed tractor rating. Load restrictions or reduction in hydraulic operating pressure may be required for safe operation.

Rops: Do not exceed the manufacturer's rating for maximum gross vehicle weight. Refer to the *Tractor Manual* or the *ROPS Serial Decal* for rating. Do not alter or modify the ROPS structure.

Tractor Tires: Space rear tires as recommended by the tractor manufacturer. Tire inflation and capacity must meet or exceed additional weight of loader, attachment and payload. Maximize width for high lift applications. Tread width must not exceed maximum width as recommended in the *Mounting Kit Listing*.

⚠ WARNING Add rear ballast to help prevent personal injury or death caused by tractor roll over.

Rear Ballast: Rear ballast is required to ensure 25% of gross vehicle weight is transferred to the rear axle. Attachment and load must be included as weight. Adequate rear weights are required to counterbalance maximum loader capacity and safe loader operation. Weight can be added as rear tire liquid (calcium solution), rear wheel weights, rear axle weights and/or three point hitch mounted ballast or implement. Ballasting will vary with tractor and loader attachment. Refer to the *Tractor Manual* for recommended ballasting.

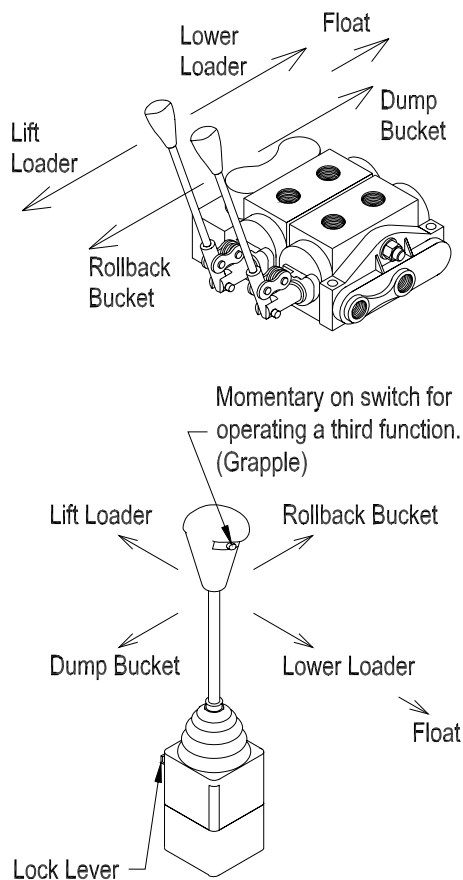
OPERATION

General Operating Notes: The following section provides general information that can be applied towards your specific application. Ensure that you've read and understood this manual and your *Tractor Manual*. Observe all safety precautions and follow local laws pertaining to the use of your loader and tractor.

Hydraulics: Under normal conditions, operate the tractor's engine at $\frac{1}{2}$ throttle.

Note: *In cold weather, tractors with load sense hydraulic systems require longer warm-up periods for the loader to respond when valve is operated.*

In cold weather, operate the tractor's engine at idle speed until the hydraulic fluid is warmed up. Slowly cycle the loader and attachment several times to further warm the hydraulic fluid. High engine speed when the hydraulic fluid is cold will cause the pump to wear prematurely and may cause the loader to operate erratically.



The hydraulic hoses should be connected to the loader valve such that pushing forward on handles lowers the loader or dumps the attachment. When using the *Allied Remote Hydraulic Control* pushing forward should lower the loader while pushing directly right should dump the attachment.

The *Allied Remote Hydraulic Control* is equipped with a momentary push button switch and a lock. The push button is for operating a third function when an electric diverter is installed. The third function is normally for operating a grapple. When the button is depressed the valve ports are open to the grapple cylinders. Shifting the joystick to the left while button is depressed will close the grapple and shifting to the right will open.

IMPORTANT: *Always feather the grapple when closing or opening to avoid unnecessary shock loads on grapple components.*

WARNING

Keep grapple closed at all times when bucket is empty and carry bucket low to the ground. Avoid operating near power wires.

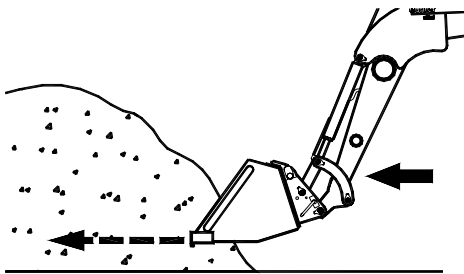
All *Buhler-Allied* hydraulic valves are self-centering and return to neutral from all positions except float. The float or detent spool is only to be used on the boom circuit. This position allows the oil to freely flow through the valve so the lift cylinders can extend or retract. It can be engaged by slightly pushing control beyond full lower. Float will allow for the loader to lower and rise as the attachment follows the ground contours. To disengage float, slightly pull control back towards the neutral position. The *Allied Remote Hydraulic Control* can be locked in the neutral position to minimize unintentional movement.

⚠ CAUTION Lower and dump heavy loads slowly by feathering. Stop tractor movement gradually. Never drop a loaded attachment and “catch” hydraulically. Stopping with such downward momentum may cause damage to the loader or tractor.

When handling heavy loads be sure to raise and lower the loader slowly while leveling the attachment as required. Feathering can assist in accurately controlling operations by regulating oil flow through cylinders.

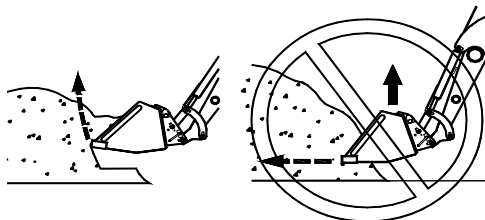
A third function hydraulic control is available for grapple or other hydraulic applications. An optional diverter valve is connected to the loader attachment spool and is operated via the *Allied Remote Hydraulic Control* momentary switch and simultaneously engaging the bucket spool through dump or rollback.

Bucket:



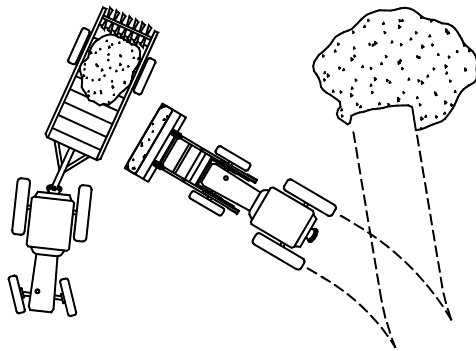
When loading a bucket, approach straight and enter the pile with a level bucket parallel to the line of motion.

IMPORTANT: Attempting to turn while loading may cause damage to the loader or tractor.



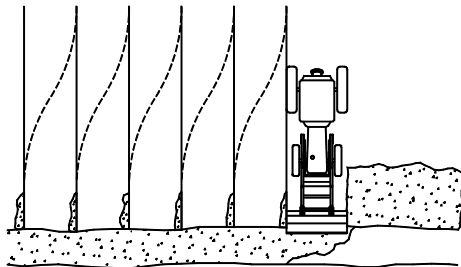
Work controls to raise and rollback the bucket simultaneously. The combined actions of lift and bucket cylinders increases loading efficiency and minimizes resistance to lift.

NOTE: On tractors with low hydraulic oil flows, both functions may not be possible



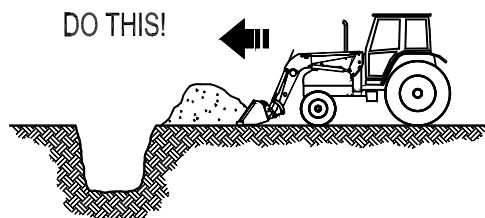
Minimize turning angle and length of run between pile and trailer to increase loading efficiency. Also, place load evenly or centered in the attachment.

⚠ WARNING Carry the load no higher than necessary to clear the terrain. Turn and brake slowly. Always be sure that loading area is level and on solid ground. Do not raise loader higher than required while dumping. Immediately lower the loader to ground if the tractor becomes unstable.



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

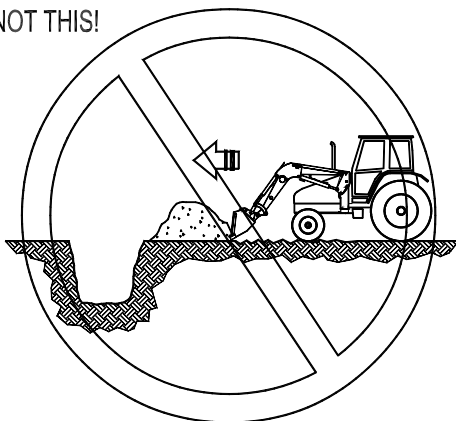
Backfilling or Scraping:



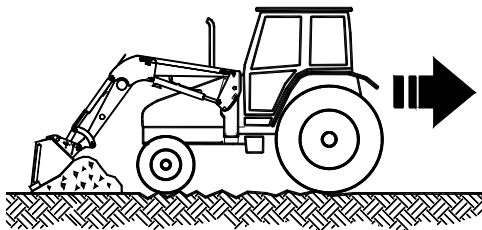
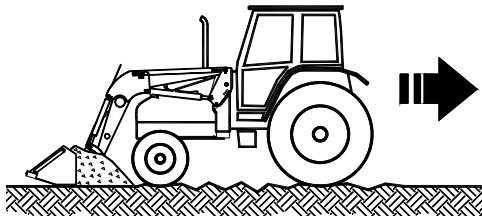
For forward back filling, approach pile with a level bucket. Utilize the float position to minimize bucket cutting edge wear. Leave dirt in bucket. Dumping on each pass reduces efficiency.

NOTE: Use leveling rod for a guide to ensure bucket is level.

NOT THIS!



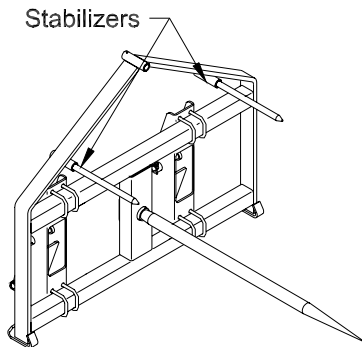
Do not use bucket in dumped position for forward grading. This will only impose severe shock loading on the bucket cylinders and it is difficult to maintain a level grade.



For back grading, either load the bucket and position the heel on the ground or position the bucket at 40° or less below level as shown. Place the valve in the float position and back up slowly.

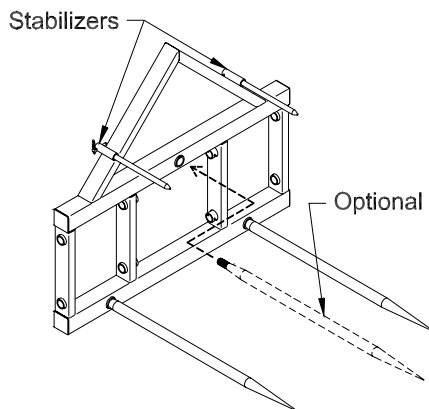
IMPORTANT: Float position must be used to reduce down pressure, otherwise cylinder rod(s) and/or bucket damage could occur.

A – Frame: Standard and Heavy Duty A – Frames can be fitted with either spears or pallet forks.



- Standard Duty

The standard duty frame is for handling medium sized round bales (up to 1000 lbs.) fitted with a single centered 1240mm long heat treated spear and two short stabilizers. For pallet applications with a maximum load up to 2000 lbs. when fitted with 42.0" fork kit.



- Heavy Duty 60"

The Heavy Duty 60" frame is for handling medium to large sized round bales (up to 2000 lbs.) when fitted with two bottom 1240mm long heat treated spears and two short stabilizers. For pallet applications with a maximum payload of 4400 lbs. when fitted with the 48.0" fork kit.

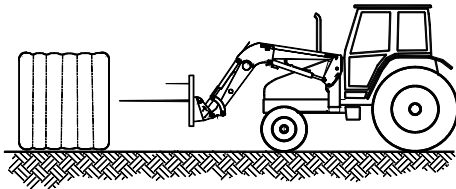
NOTE: The heavy duty frame can also be fitted using only the one center spear as per the standard duty A-frame.

Handling bales and pallets:

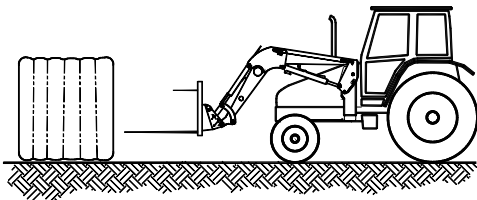
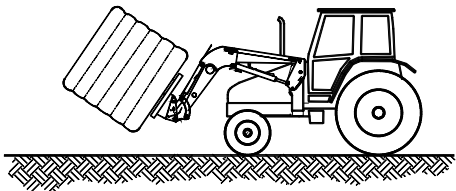
For safe handling of bales and pallets please follow procedures below:

⚠ WARNING

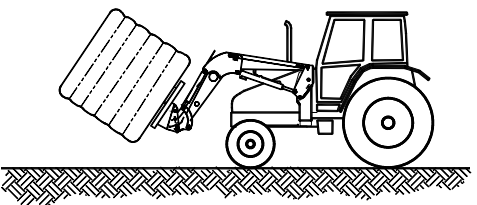
Do not operate A – Frame for bales without the stabilizers.



With a single spear, enter one of the ends of the bale and drive the spear horizontally into the center or slightly above center of the bale and fully penetrate the bale. Then rollback the bucket cylinders approximately three quarters of the cylinder stroke and lift bale approximately a foot off the ground.

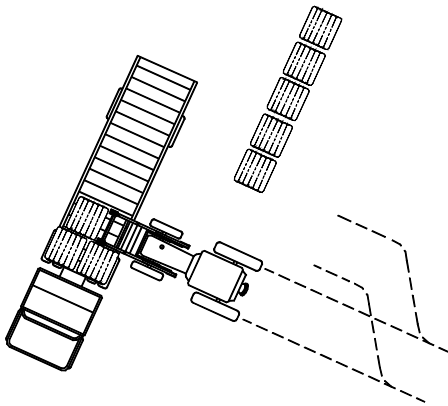


With the double or four spears enter the bale from one of the ends and drive the spear one third to one half the way up, from the bottom and fully penetrate the bale. Then rollback the bucket cylinders approximately three quarters of the cylinder's stroke and lift bale approximately 12.0" off the ground.



⚠ CAUTION

Never attempt to use the spears as forks, as the spears can easily penetrate the ground causing a spear to bend or break as well as making the bale unstable to carry. Never attempt to handle a bale with only part of the spear(s) penetrated. The nut on the bale spear must be torqued to 500 ft.-lbs. Check the torque periodically. A loose spear will damage the spear holder.

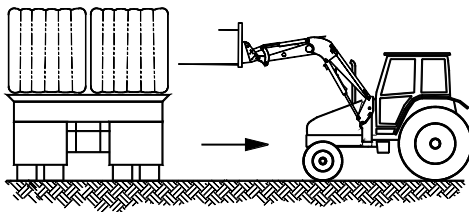


When loading bales onto a trailer, park trailer in close proximity to minimize turning angle and length of travel to increase loading efficiency.

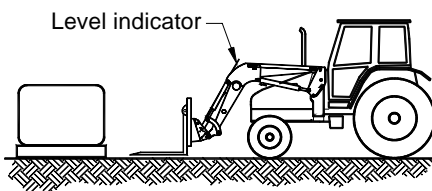
As you lift the bale using the regular loader, it is recommended to feather the valve to allow bucket cylinders to extend to keep bale at about a 20° angle. (On TSL loaders this is not necessary) Lift the bale only enough to clear the area that the bale will be placed on. Always approach the trailer square to the tractor as shown.

⚠ CAUTION

Avoid sudden stops and sharp turns. Avoid uneven terrain areas for loading and unloading.



After setting the bale down position the A – frame with spear(s) horizontal to the ground and slowly back the tractor straight out.



With pallet forks level and just above the ground, drive the forks into the pallet completely. Raise loader to lift pallet and carry level 6 to 12 inches off the ground.

Note: The TSL loader is highly recommended when operating with pallet forks for maintaining a constant level load. Use the level indicator as a guide to ensure forks are level at ground.

⚠ CAUTION

Avoid sudden stops and sharp turns. Operate at low ground speeds. Never attempt to lift loads heavier than the rated fork specs (42"– 2200 lbs.) (48"– 4400 lbs.). Always lift or carry pallets using both forks and utilizing the full length of the forks.

⚠ WARNING

When driving amongst livestock keep bucket cylinders retracted, and loader boom at least 6 to 7' off the ground. Store A – frame away from both play and heavy traffic areas.

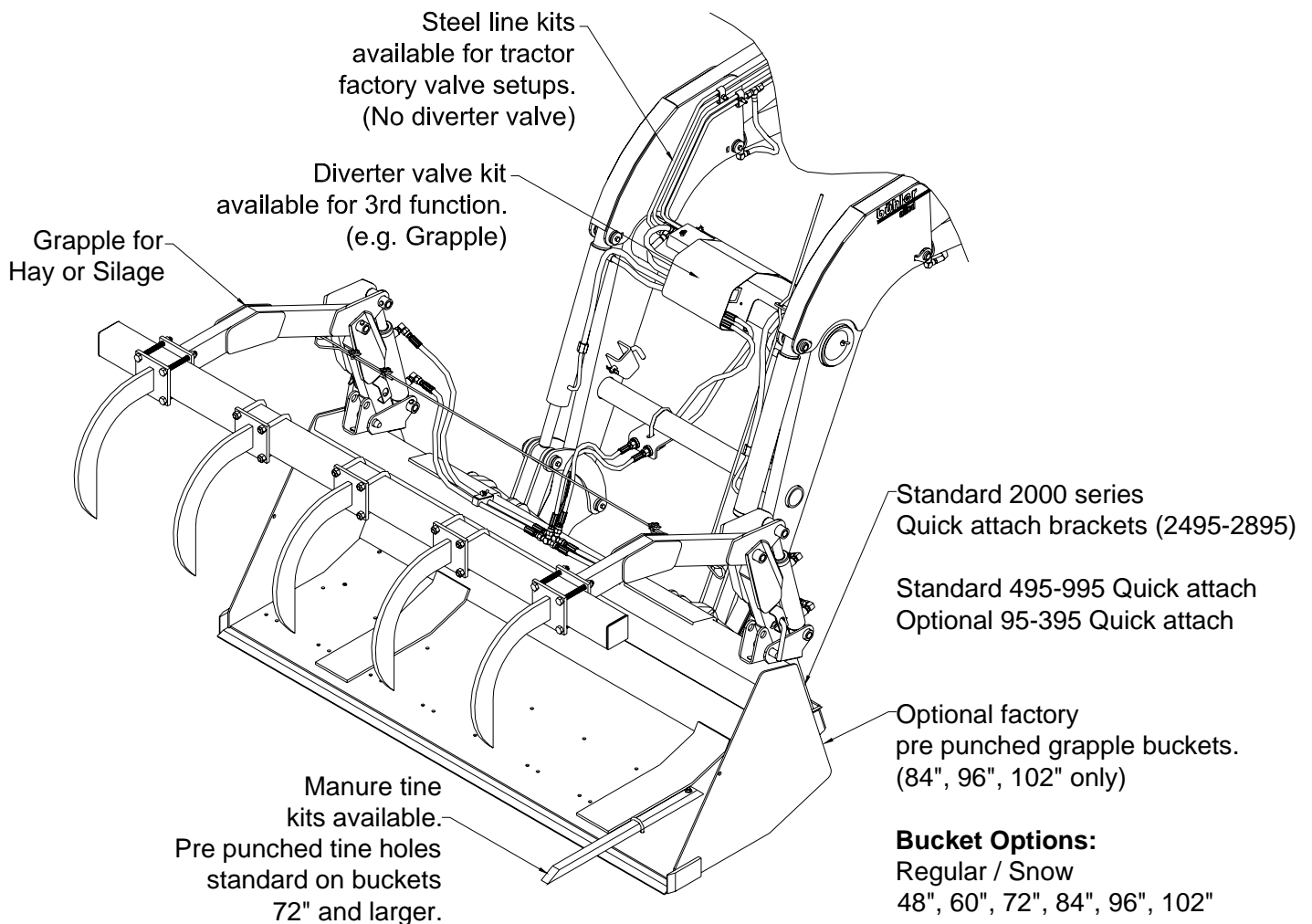
Grapple:

The grapple is designed to safely prevent loads (bales, silage) from falling out of the bucket. (Refer to pictorial below for options listed)

⚠ WARNING

Travel at low speeds. Carry loads as low as possible. Avoid sharp turns and uneven terrain.

2595 Loader Model Shown with Grapple



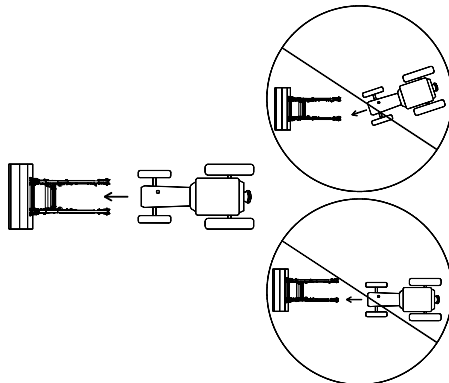
* New attachments are introduced regularly check with your dealer or Allied factory.

* Not all attachments are available for all models.

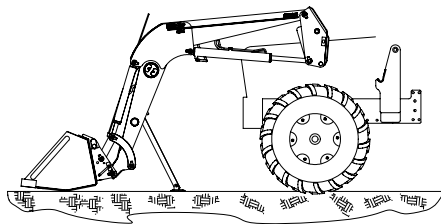
INSTALLING / REMOVING LOADER

Installing:

⚠ CAUTION Prior to initial mounting, cycle loader cylinders to displace air. This ensures the loader will remain in the storage position and operate consistently.

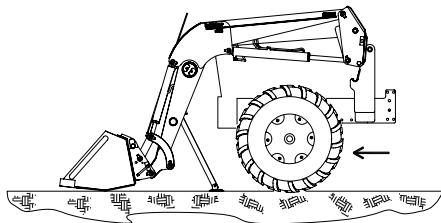


1. Position the tractor centrally and parallel to the loader uprights. Drive forward slowly until the loader hydraulic hoses can be coupled. Shut tractor off and set park brake. Couple the loader hoses to the matched color code identifiers on the auxiliary valve for proper orientation of loader operation.

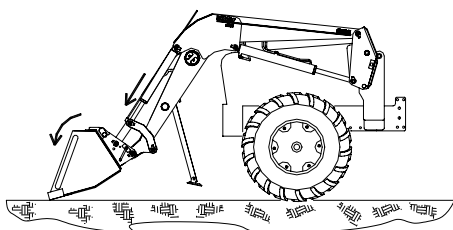


2. Extend lift cylinders to tilt both loader uprights approximately 30 degrees. Rollback bucket to further raise upright for additional clearance. Both upright base pivots must be above the loader mount cradle.

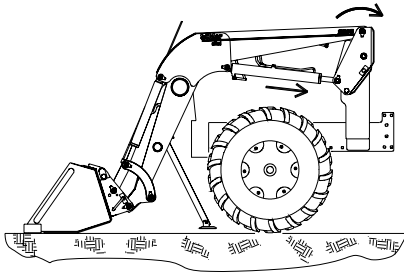
⚠ CAUTION Verify front and side clearances during installation to avoid tractor damage. Position hydraulic hoses such that they will not be pinched or stretched during installation.



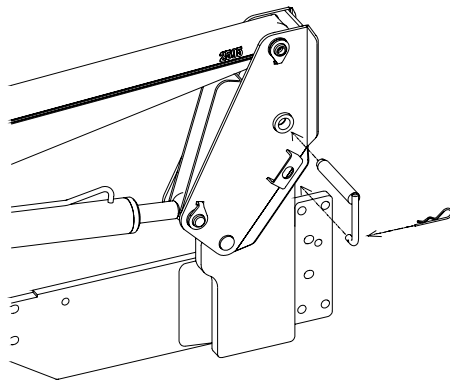
3. Slowly drive the tractor forward until the upright base pivot contacts the mount plate.



4. Slowly extend the bucket and retract the lift cylinders to lower the upright pivot into the mount plate cradle. Ensure both uprights are fully engaged within the mount plate cradle.



5. With the tractor in neutral, continue to retract the lift cylinders and extend the bucket cylinders to rotate the upright back against the lock pin stops. Shut the tractor off and set park brake.

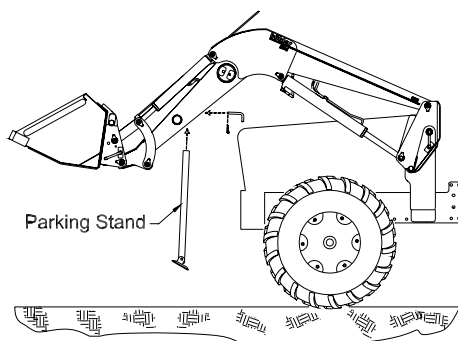


6. Install both upright attachment pins and secure with hairpin clip. Start the tractor and slowly raise loader until the parking stands are off the ground.

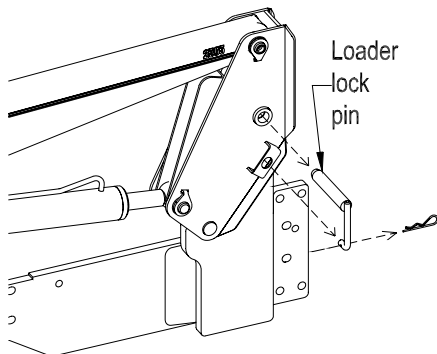
⚠ WARNING Shut tractor off and store parking stands within loader cross tube remembering to stand on the outside of the loader arms. Start the tractor and continue to cycle loader and attachment to verify loader operation.

Removing:

⚠ WARNING A bucket or other suitable attachment must be attached to the loader for stability. Always remove the loader on firm level surface away from children's play areas and high traffic areas.

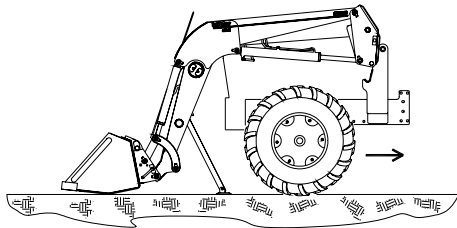


1. Raise loader to provide clearance to engage both parking stands. Shut off tractor. Standing along the outside of the loader arms remove parking stands from storage position and engage within the loader mainframe.

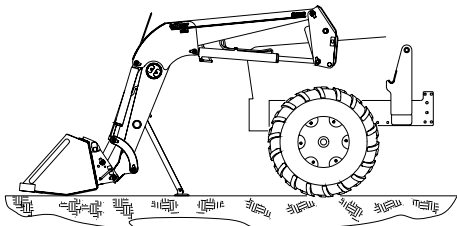


2. Lower attachment level to the ground while engaging float position. Ensure attachment rests firmly on ground with minimal downward pressure. If required extend bucket cylinders to rotate upright rearward. At this stage the pin should have no pressure. Set tractor park brake and remove loader lock pins. Check hydraulic hoses such that they will not get pinched or stretched during removal.

⚠ WARNING Operate hydraulic controls slowly. Loader will disengage from the mounting kit and may shift if not on firm level ground.



3. Retract bucket cylinders to raise upright and disengage from the loader mount cradle. If additional clearance is required, extend lift cylinders while slowly backing the tractor away from the loader.

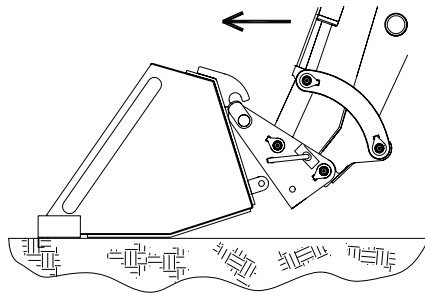


4. After the tractor is clear of the loader, retract all cylinders to protect the shafting. Shut tractor off and set park brake and relieve oil pressure in hoses by moving valve control. Disconnect hydraulic loader hydraulic hoses at the quick couplers.

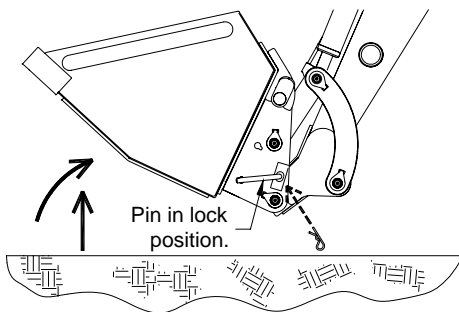
IMPORTANT: Cap both male and female couplers. Wrap loader hoses over loader arm.

INSTALLING / REMOVING LOADER ATTACHMENTS

Installing:



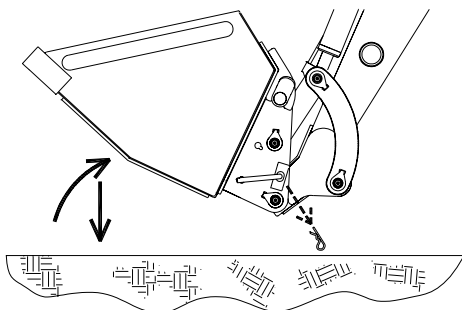
1. Position tractor centrally within the bucket hooks. Dump *Quick-tach* slightly from vertical position. Slowly drive the tractor forward until the *Quick-tach* contacts the bucket.



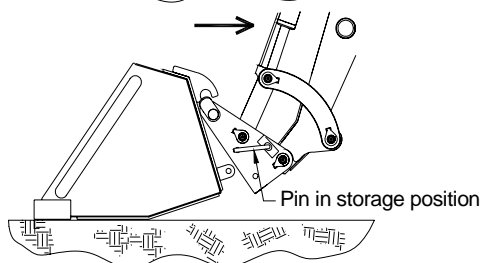
2. Slowly raise the loader to engage the *Quick-tach* within both bucket hooks. When both hooks are resting on the *Quick-tach* rollback the bucket. Shut tractor off. Lock using both *Quick-tach* pins and secure with hairpin clips.

⚠ CAUTION Verify attachment installation from tractor seat by lowering level attachment to ground and retracting the lift cylinders.

Removing:



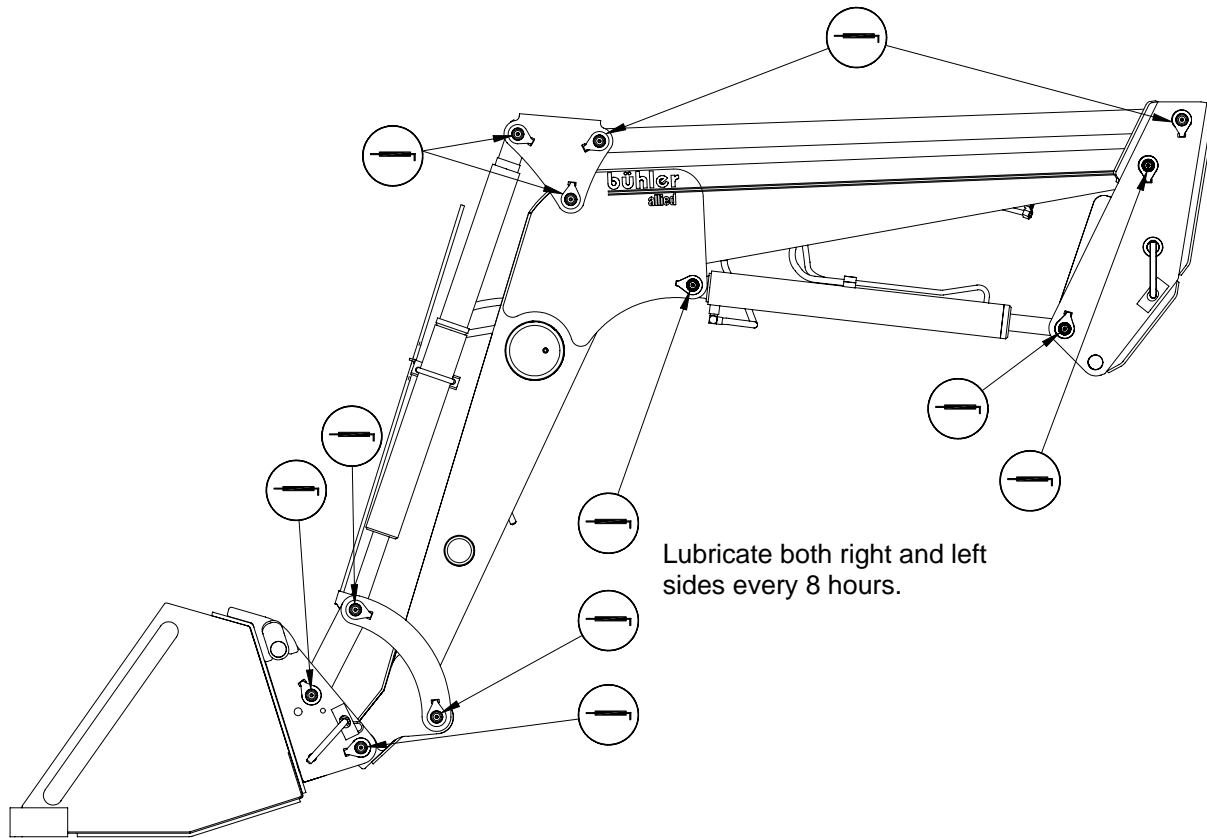
1. Rollback attachment and lower near ground position. Shut tractor off.



2. Remove both *Quick-tach* pins and place in storage position. Place level attachment on ground. Slowly dump attachment while backing tractor away.

LUBRICATION

Lubricate loader bushings and pivots every eight hours of average operation with high-grade grease. For grease fitting locations see illustration below. Select grease based on the expected outside temperature range. Lithium, Molybdenum and synthetic greases are preferred. Use the tractor hour meter as a guide. Increase lubrication intervals for extreme use or adverse conditions. Each pivot should be lubricated until grease is visible at pin.



TSL Loader Shown

IMPORTANT: Ensure that grease fittings accept grease. Should any fitting become plugged, replace immediately. Pivots not greased as specified would cause premature wear of pins and bushings.

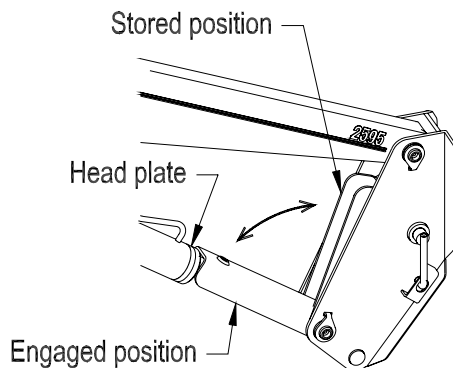
MAINTENANCE**General Inspection:**

⚠ CAUTION Lower attachment and loader to ground, place all controls in neutral, stop engine, set parking brake and remove ignition key before inspecting, servicing, adjusting or repairing loader.

⚠ WARNING Relieve hydraulic pressure before repairing, adjusting or disconnecting hydraulics components. Escaping hydraulic oil can penetrate skin causing serious personal injury. If injured consult a physician immediately.

⚠ WARNING Never work beneath a raised loader unless it is securely supported. The control lever can be moved or a hydraulic leak could cause the loader to drop resulting in serious injury or death. Refer to the *Lift Lock Instructions Decal* for proper use of the lift locks.

Lift Locks: The lift locks on your loader are to be used whenever someone is attempting to be under the loader or for tractor servicing. When using the locks ensure loader is free of any load in the loader attachment or no attachment.

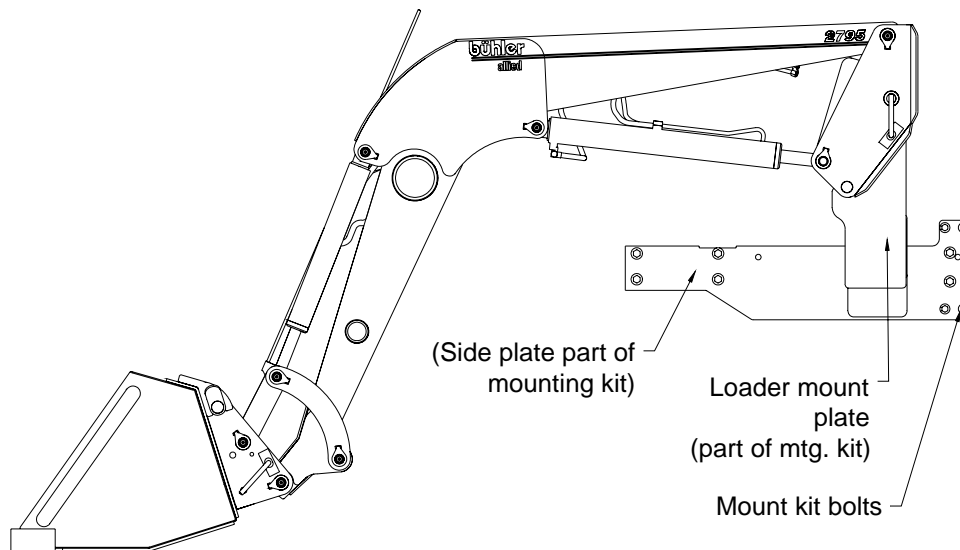


To engage, raise loader sufficient for lift lock clearance. Swing each lift lock forward resting on the cylinder rod below the head plate as shown. Turn off the tractor and slowly lower the loader until the cylinder head plate rests up against the lift lock. Then lock joystick in neutral position.

Pins and Bushings: Every 6 months or 1000 hours check loader and cylinder pivots for movement that would be due to bushing or pin wear. Change bushings when excessive movement is noticed and replace any worn or rough surfaced pins.

Mounting Kit:

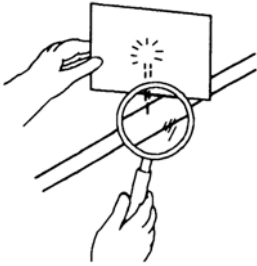
After the initial 2 weeks or 40 hours of loader operation, and 6-month intervals thereafter re-torque all mounting kit bolts. (See below for proper bolt torques)



Bolt Torque Chart:

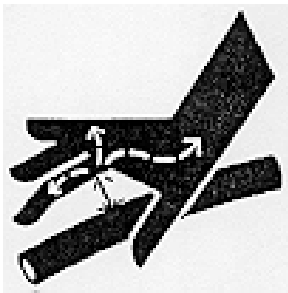
Standard						
Bolt Size (in.)	Grade 2 Bolts		Grade 5 Bolts		Grade 8 Bolts	
	Torque		Torque		Torque	
	ft-lbs	NM	ft-lbs	NM	ft-lbs	NM
0.25	6	7	8	11	12	16
0.313	11	15	17	23	25	33
0.375	20	27	31	42	44	60
0.438	32	43	49	66	70	95
0.5	49	66	76	103	106	144
0.563	70	95	109	148	153	207
0.625	97	131	150	203	212	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 Size (mm)	Class 5.6		Grade 8.8		Grade 10.9		Grade 12.9		
	Torque		Torque		Torque		Torque		
	ft-lbs	NM	ft-lbs	NM	ft-lbs	NM	ft-lbs	NM	
6	3.1	4.3	7.3	9.9	10.3	14	12.1	16.5	
8	7.7	10.5	17.7	24	25	34	29	40	
10	15	21	35	48	49	67	59	81	
12	26	36	61	83	86.2	117	103	140	
14	42	58	97	132	136	185	162	220	
16	64	88	147	200	210	285	250	340	
18	89	121	202	275	287	390	346	470	
20	126	171	287	390	405	550	486	660	
22	169	230	390	530	549	745	656	890	
24	217	295	497	675	708	960	840	1140	
27	320	435	733	995	1032	1400	1239	1680	
30	435	590	995	1350	1401	1900	1681	2280	
33	590	800	1349	1830	1902	2580	2278	3090	
36	759	1030	1740	2360	2441	3310	2935	3980	
39	988	1340	2249	3050	3163	4290	3798	5150	

Hydraulics:

⚠ WARNING Escaping fluid under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Before repairing, adjusting, or disconnecting lines, be sure to relieve all pressure.

Before applying pressure to the system, be sure all connections are tight and the lines, pipes, and hoses are not damaged.



Wear proper hand and eye protection when searching for leaks. Use a piece of wood or cardboard instead of hand to check for leaks.

Maintain all components in good working order.

If injured by escaping fluid, see a doctor at once. Serious infection or toxic reaction can develop if proper medical treatment is not administered immediately.

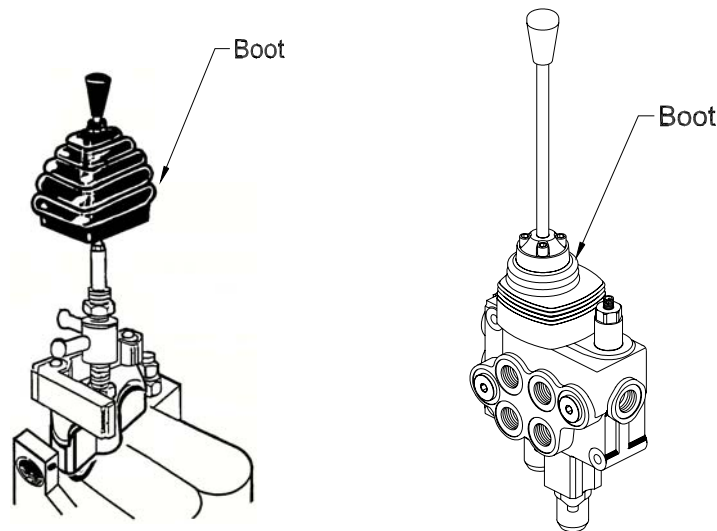
With loader attachment on the ground, check and add if necessary the approved hydraulic fluid. Refer to the *Tractor Manual* for proper inspection of fluid level, oil type and service intervals. Visually check hoses and fittings for leaks and damage on a daily bases. Ensure hoses do not bind or stretch during operation. Always keep hoses tied or supported to prevent rubbing against sharp areas or being pinched. We suggest using tie wraps to support hoses. Hoses routed from steel lines to cylinders should be in a relaxed position. To correct, loosen swivel end of hose and retighten.

⚠ WARNING Never operate the loader with frayed or damaged hoses or leaking fittings. A burst would cause the loader to drop suddenly and result in serious injury or death and cause damage to the loader or tractor.

Replacement hoses must be equal to a working pressure of 3000 P.S.I. or higher.

A yearly inspection of the valve is recommended. However the maintenance intervals on the valve depends on the surrounding environment or if valve spools become stiff. Where temperatures fluctuate from one extreme to another or exposed to high salt the intervals for maintenance should be increased to protect from corrosion.

On non-cab tractors mounted with the joystick valve, slip back the boot and clean away any debris. Spray a corrosion resistant lubricant and remount the boot. Replace a torn or cracked boot.

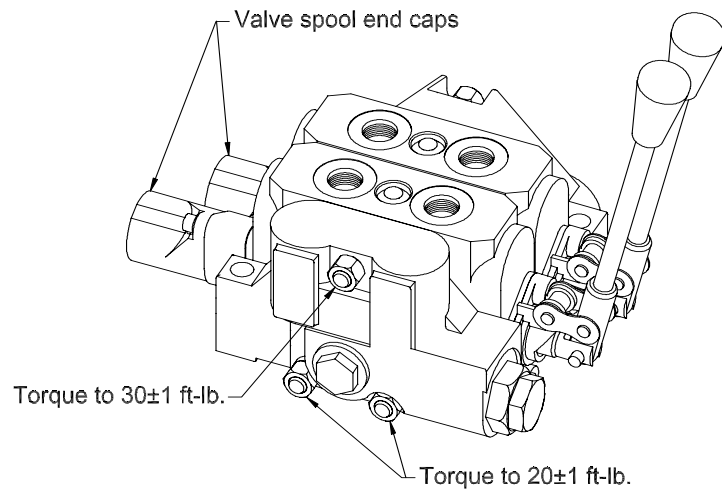
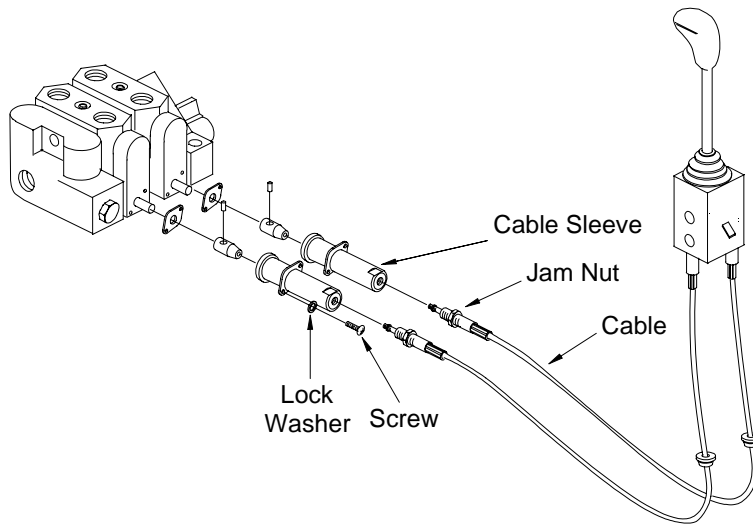


⚠ WARNING Shut tractor down and relieve oil pressure in system by moving the control valve spools in both directions before doing any maintenance.

Maintenance involves yearly removal of valve spool end caps and cleaning all debris and corrosion. Spray area with a corrosive resistant lubricant and recap.

⚠ CAUTION Never use grease to lubricate valve components where climate temperature drops below 0°C as this could cause spools to jam.

On valves fitted with joystick cables loosen off jam nut and cable sleeves to gain access to the valve spool. Clean all debris and any existing corrosion. Spray areas with a light corrosion resistant lubricant. Re-mount cables sleeves and adjust so that joystick is centered in both axis to the base. Lock cable sleeve by using the jam nut. *Note: In severe cold weather climates, inspect and maintain the valve and joystick cables before cold weather.*



TSL GENERAL NOTE AND INSTRUCTIONS

1. The *true self leveling system* (TSL) utilizes mechanical linkages to maintain bucket level while raising and lowering. The pivot plate weldment, leveling tubes and linkages have been developed to ensure that the bucket remains at the same position throughout its range of motion. This feature is standard with 2.50" and 3.00" diameter bucket cylinders.
2. The TSL system incorporates a relief and anticavitation manifold to provide extra dump at ground and rollback at full lift height. This feature is available on 3.00" bucket cylinders only. **If the loader is raised with the bucket fully dumped**, oil from the bucket piston side will be bypassed at high pressure to the bucket shaft side and the lift shaft side as the quick attach contacts the dump stop. **If the loader is lowered with the bucket fully rolled back**, oil from the bucket shaft side will be bypassed at high pressure to the bucket piston side and the lift piston side will provide makeup as the quick attach contact the rollback stop. Note that these two conditions are likely to occur intermittently and although the pump will be forced to supply oil at a higher pressure, no damage to the loader components will occur. It is, however, recommended to avoid the above situations and keep the bucket somewhat level while raising or lowering the loader for smoother operation.
3. The extra bucket stroke length allows for the bucket to be dumped to approximately 90 degrees at ground. This allows for bucket assist when traction is minimal. If the loader is raised from this position, the bucket will retract as the quick attach contacts the dump stop and the circuit goes through relief as described in note 2.
4. Extra bucket retraction allows for the bucket to be rolled back as the loader raises. The TSL feature maintains the bucket level, but as required the bucket can be manually rolled back approximately 20 degrees to allow for increased bucket capacity. If the loader is lowered from this position, the bucket will extend as the quick attach contacts the rollback stop and the circuit goes through relief as described in note 2.
5. The relief valve is factory set at 3250 PSI cracking pressure and is capable of bypassing 10-15 GPM. If loader lock-up should occur due to a low tractor relief setting, higher inlet flows or return line restrictions, the relief valve may be backed off slightly until the lock-up condition is overcome (counterclockwise turn of set-screw). Contact the factory for further instructions.

TROUBLE SHOOTING

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

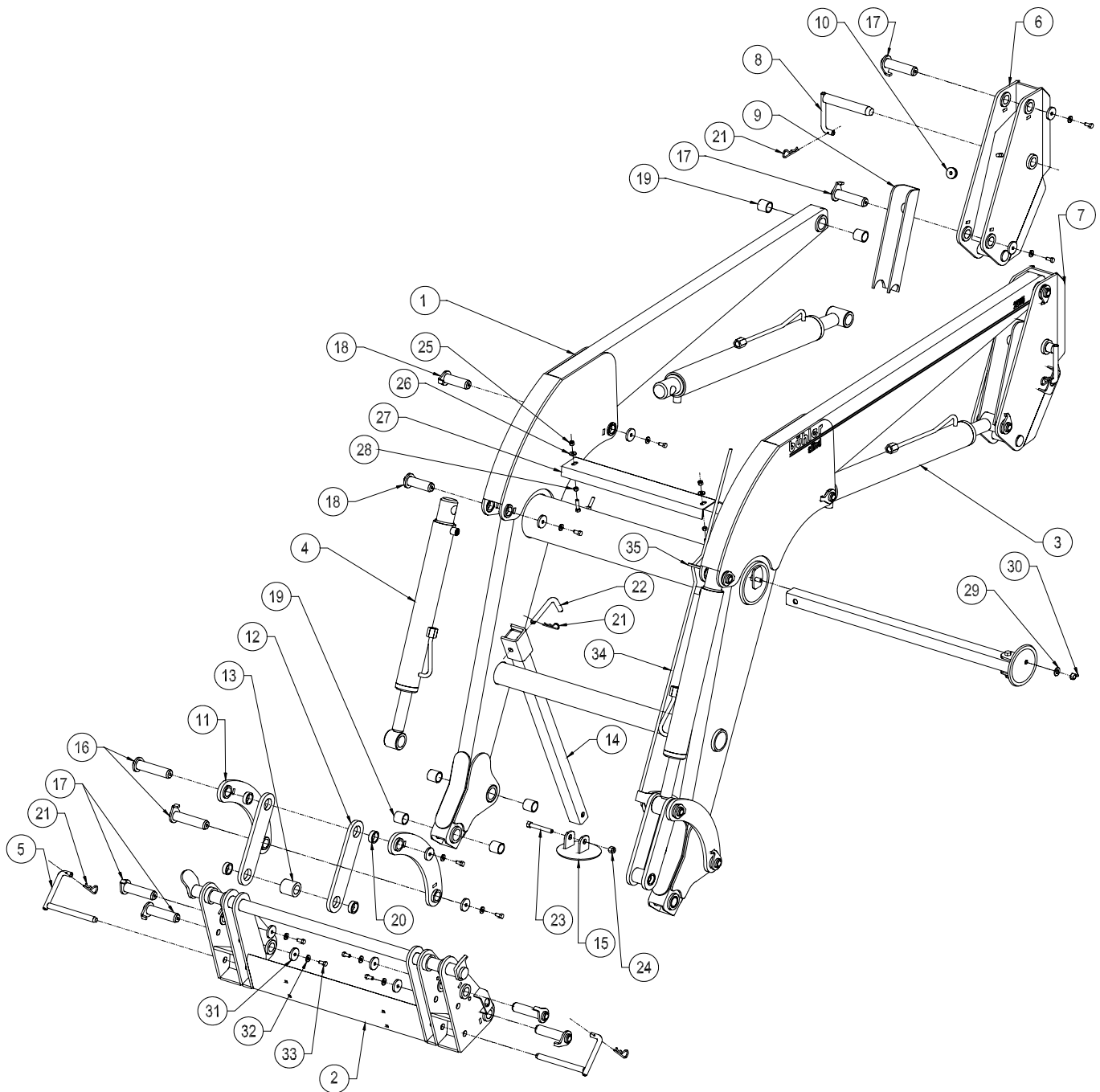
Trouble Shooting Continued

<u>Problem</u>	<u>Possible Cause</u>	<u>Remedy</u>
Insufficient lift capacity.	Improper hydraulic pump operation. Load is greater than boom lift capacity. Internal boom cylinder leakage. Improper hydraulic valve operation.	Repair or replace pump. Check loader specifications. Replace any worn parts and install a seal repair kit. Repair or replace valve.
Slow leak down.	Worn control valve. 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 hydraulics system.	Tractor control valve relief stuck open. Incorrect Auxiliary Valve. Hydraulic control valve set to low.	See your service manual for proper adjustment. Check with loader dealer for proper valve application. 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.
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 the power beyond adapter.
Stiff control valve.	Dirt or moisture build up on spool ends. Incorrect torque (applies to sectional valves only).	Clean spool ends and if applicable cable ends at valve. Loosen and re-torque bolts to specs.

PARTS APPENDIX

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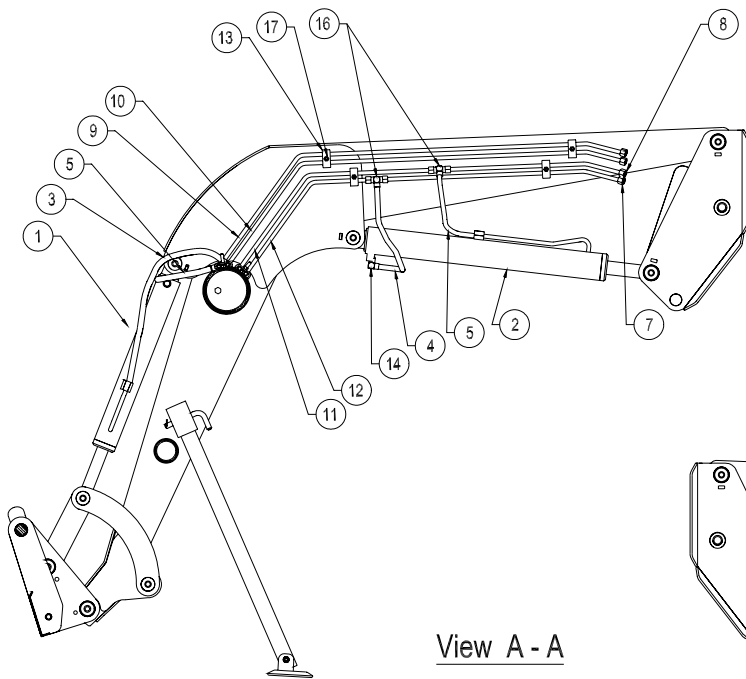
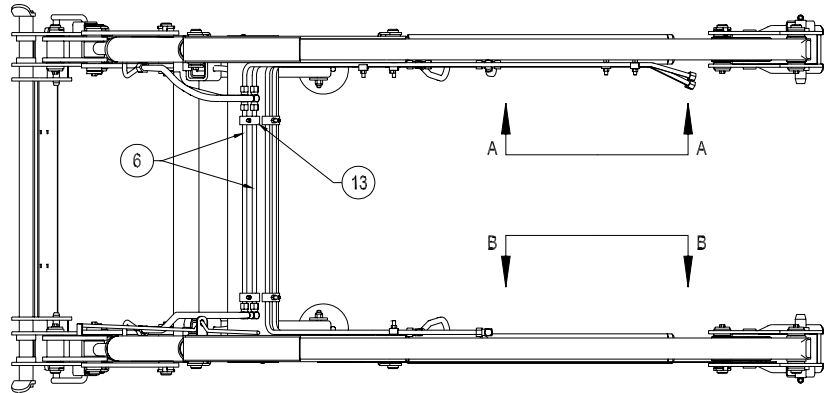
**2795 – 2795 S
Main Frame Assembly**



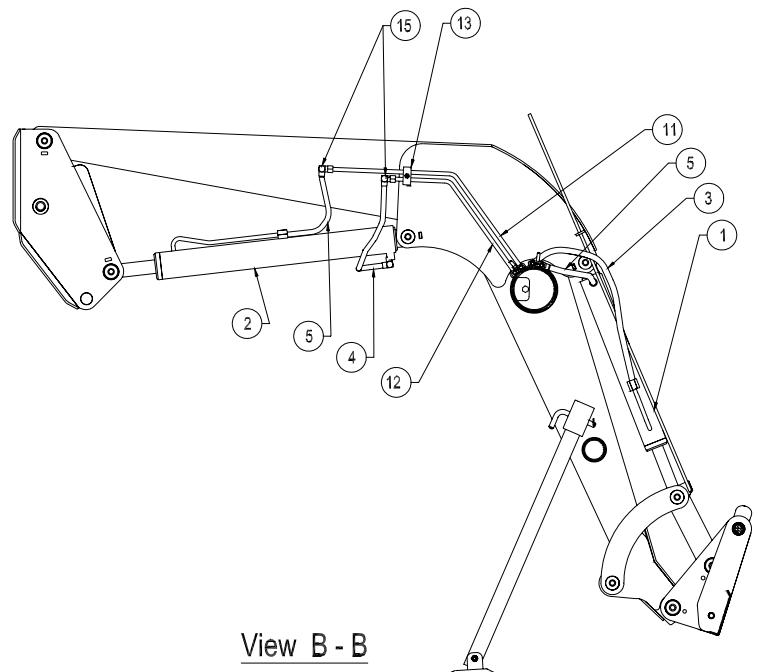
**2795 – 2795 S
Main Fame Assembly**

Item	Part No.	Description	2795	2795 S
1	25081	2795 Main Frame Weldment	1	-
1	25063	2795 S Main Frame Weldment	-	1
2	25067	2795 Quick Attach Weldment	1	1
3	Ref.	Lift Cylinder (see cylinder assembly)	2	2
4	Ref.	Bucket Cylinder (see cylinder assembly)	2	2
5	114823	Pin Weldment (Quick Attach)	2	2
6	25061	Upright Weldment Right	1	1
7	25060	Upright Weldment Left	1	1
8	114835	Pin Weldment (Upright)	2	2
9	114705	Lift Lock	2	2
10	812717	Grommet	2	2
11	115882	Link Weldment 14.63"	4	4
12	115192	Link Weldment 10.25"	4	4
13	114810	Link Spacer 2.375 OD x 2.0 LG.	2	2
14	114475	Stand Tube	2	2
15	114303	Stand Foot	2	2
16	115902	Pin 1.25 x 5.75	8	8
17	115900	Pin 1.25 x 5.25	4	4
18	115898	Pin 1.25 x 4.25	4	4
19	113578	Bushing 1.25 ID x 1.63 OD x 1.375 LG	12	12
20	115021	Bushing 1.25 ID x 1.63 OD x 0.5 LG.	8	8
21	12779	Hair Pin Clip	6	6
22	110907	Stand Pin	2	2
23	81669	Hex Bolt 0.625 DIA x 3.5 LG.	2	2
24	81967	Nut Lock 0.625 DIA	2	2
25	81344	Nut Lock (Nylon) 0.375 NC	9	9
26	81570	Flat Washer 0.375 DIA	4	4
27	24242	Cross Tube Cover	1	1
28	81592	Nut Hex 0.375 NC GR2 PL	4	4
29	81637	Lock Washer 0.50 DIA	2	2
30	813228	Wing Nut 0.50 DIA	2	2
31	115909	Pin Cap	15	15
32	81615	Washer Lock 0.438 DIA	16	16
33	81597	Hex Bolt 0.438 DIA x 1.00 GR5 PL	16	16
34	115298	Leveling Rod	1	1
35	115813	Leveling Rod Guide	1	1

**2795 – 2795 S
Hydraulic Plumbing Assembly**



View A - A

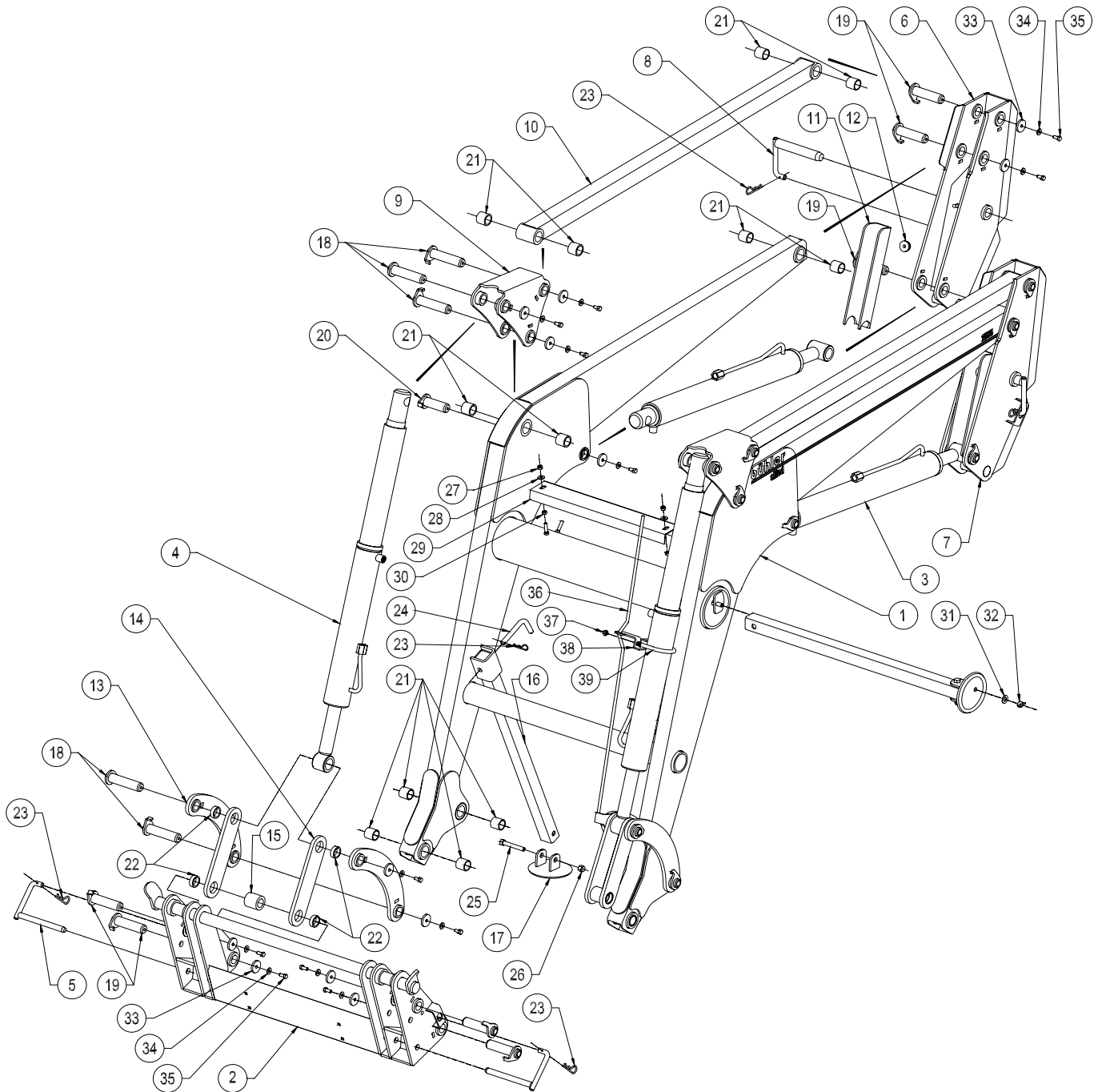


View B - B

2795 – 2795 S
Hydraulic Plumbing Assembly

Item	Part No.	Description	2795	2795 S
1	Ref.	Bucket Cylinder (See cylinder assembly for breakdown)	2	2
2	Ref.	Lift Cylinder (See cylinder assembly for breakdown)	2	2
3	811434	Hose 3/8 x 30 3/4 - 16 MORB x 3/4 – 16 SWFJIC	2	2
4	812696	Hose 3/8 x 18 3/4 - 16 SWFJIC x 3/4 - 16 SWFJIC	2	2
5	811754	Hose 3/8 x 18 3/4 - 16 MORB x 3/4 – 16 SWFJIC	4	4
6	112837	Tubing Bucket Cyl. Cross Tube	2	2
7	113031	Tubing Lift Cyl. Common (23.0)	1	1
8	115910	Tubing Lift Cyl. Common (15.0)	1	1
9	115917	Tubing Bucket Cyl. Top/Dump	1	1
10	115918	Tubing Bucket Cyl. Bottom/Rollback	1	1
11	114925	Tubing Lift Cyl. Top/Drop	1	1
12	114926	Tubing Lift Cyl. Bottom/Raise	1	1
13	11362	Clip Pipe Std.	9	9
14	811414	Elbow 90 3/4 MORB x 3/4 MJIC	2	2
15	812128	Elbow 90 3/4 MJIC x 3/4 MJIC	4	4
16	812069	Tee 3/4 MJIC	4	4
17	81344	Nut Lock (Nylon) 0.375 NC	9	9

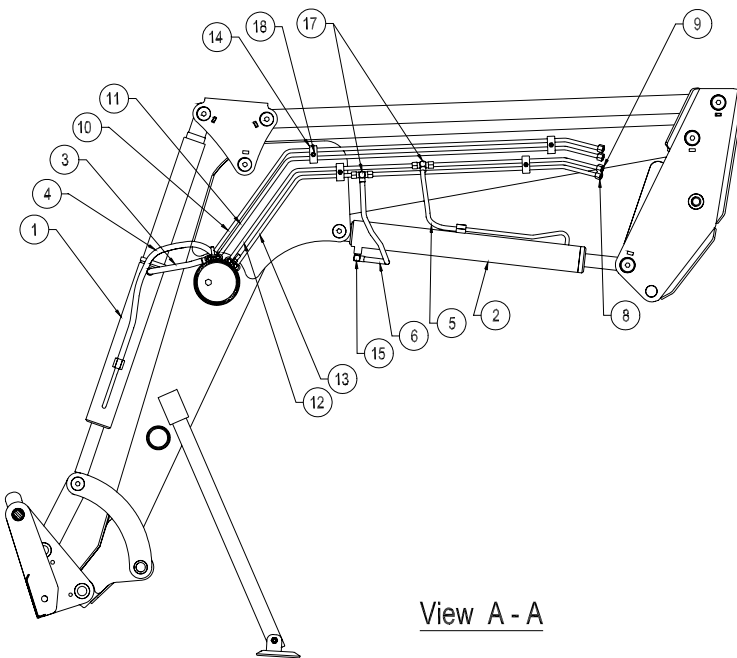
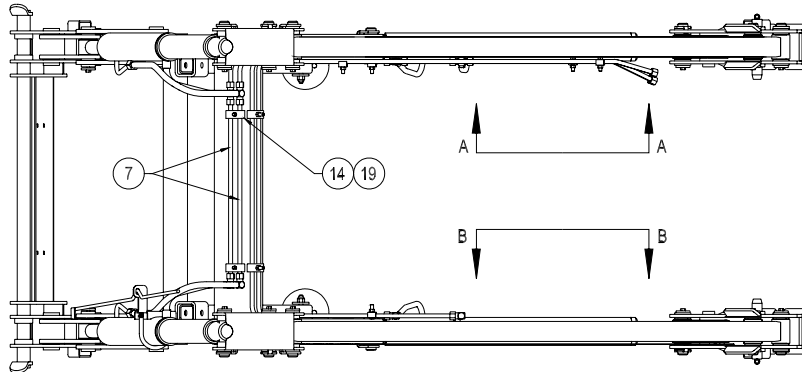
**2795 TSL – 2795 S TSL
Main Frame Assembly**



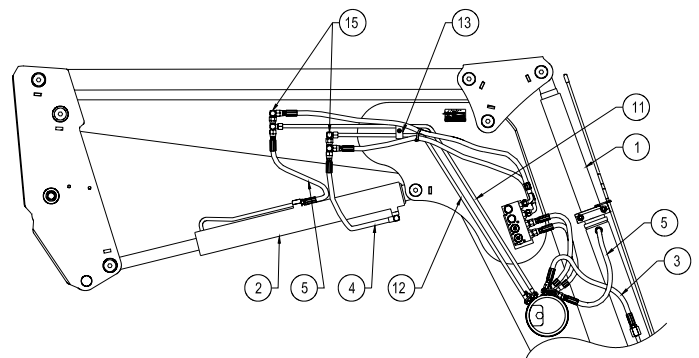
2795 TSL – 2795 S TSL Main Frame Assembly

Item	Part No.	Description	2795 TSL	2795 S TSL
1	25082	2795 TSL Main Frame Weldment	1	-
1	25065	2795 S TSL Main Frame Weldment	-	1
2	25067	2795 Quick Attach Weldment	1	1
3	Ref.	Lift Cylinder (see cylinder assembly)	2	2
4	Ref.	Bucket Cylinder (see cylinder assembly)	2	2
5	114823	Pin Weldment (Quick Attach)	2	2
6	25077	Upright Weldment Right (TSL)	1	1
7	25076	Upright Weldment Left (TSL)	1	1
8	114835	Pin Weldment (Upright)	2	2
9	115884	Pivot Plate	2	2
10	114896	Leveling Tube Weldment	2	2
11	114705	Lift Lock	2	2
12	812717	Grommet	2	2
13	115882	Link Weldment 14.63"	4	4
14	115192	Link Weldment 10.25"	4	4
15	114810	Link Spacer 2.375 OD x 2.0 LG.	2	2
16	114475	Stand Tube	2	2
17	114303	Stand Foot	2	2
18	115902	Pin 1.25 x 5.75	16	16
19	115900	Pin 1.25 x 5.25	4	4
20	115898	Pin 1.25 x 4.25	2	2
21	113578	Bushing 1.25 ID x 1.63 OD x 1.375 LG	24	24
22	115021	Bushing 1.25 ID x 1.63 OD x 0.5 LG.	8	8
23	12779	Hair Pin Clip	6	6
24	110907	Stand Pin	2	2
25	81669	Hex Bolt 0.625 DIA x 3.5 LG.	2	2
26	81967	Nut Lock 0.625 DIA	2	2
27	81344	Nut Lock (Nylon) 0.375 NC	4	4
28	81570	Flat Washer 0.375 DIA	4	4
29	24242	Cross Tube Cover	1	1
30	81592	Nut Hex 0.375 NC GR2 PL	4	4
31	81597	Lock Washer 0.50 DIA	2	2
32	813228	Wing Nut 0.50 DIA	2	2
33	115909	Pin Cap	22	22
34	81615	Washer Lock 0.438 DIA	22	22
35	81597	Hex Bolt 0.438 DIA x 1.00 GR5 PL	22	22
36	115298	Leveling Rod Weldment	1	1
37	81966	Nut Lock (Nylon) 0.50 NC	2	2
38	114969	Guide Bracket	1	1
39	115012	U-Bolt	1	1

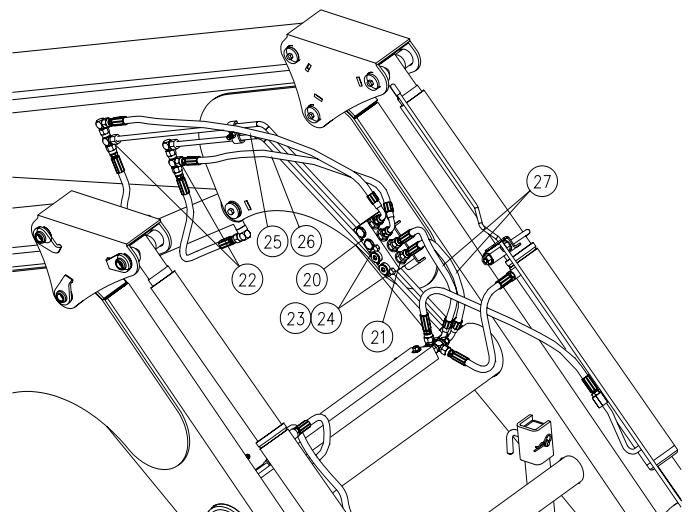
**2795 TSL – 2795 S TSL
Hydraulic Plumbing Assembly**



View A - A



View B - B



2795 TSL – 2795 S TSL
Hydraulic Plumbing Assembly

Item	Part No.	Description	2795	2795 S
1	Ref.	Bucket Cylinder (See cylinder assembly for breakdown)	2	2
2	Ref.	Lift Cylinder (See cylinder assembly for breakdown)	2	2
3	811434	Hose 3/8 x 30 3/4 - 16 MORB x 3/4 - 16 SWFJIC	2	2
4	811467	Hose 3/8 x 36 3/4 - 16 MORB x 3/4 - 16 SWFJIC	2	2
5	811754	Hose 3/8 x 18 3/4 - 16 MORB x 3/4 - 16 SWFJIC	2	2
6	812696	Hose 3/8 x 18 3/4 - 16 SWFJIC x 3/4 - 16 SWFJIC	2	2
7	112837	Tubing Bucket Cyl. Cross Tube	2	2
8	113031	Tubing Lift Cyl. Common (23.0)	1	1
9	115910	Tubing Lift Cyl. Common (15.0)	1	1
10	115917	Tubing Bucket Cyl. Top/Dump	1	1
11	115918	Tubing Bucket Cyl. Bottom/Rollback	1	1
12	114925	Tubing Lift Cyl. Top/Drop	1	1
13	114926	Tubing Lift Cyl. Bottom/Raise1	1	1
14	11362	Clip Pipe Std.	9	9
15	811414	Elbow 90 3/4 MORB x 3/4 MJIC	2	2
16	812128	Elbow 90 3/4 MJIC x 3/4 MJIC	4	4
17	812069	Tee 3/4 MJIC	4	4
18	81344	Nut Lock (Nylon) 0.375 NC	9	9
19	81592	Nut Hex 0.375 NC GR2 PL	4	4
20	25253	Hydraulic Manifold	1	1
21	886897	Adaptor Str 7/8 Morb x 3/4 Mjic	4	4
22	812786	Tee 3/4 Mjic x 3/4 Swfjic	2	2
23	812052	Bolt Hex 0.250 NC x 3.00 gr5 pl	2	2
24	81922	Nut Lock (Nylon) 0.250nc grbpl	2	2
25	116940	3/8 x 44 Hose 3/4 Swfjic x 3/4-90 Swfjic	1	1
26	116941	3/8 x 44 Hose 3/4 Swfjic x 3/4-90 Swfjic	1	1
27	116942	3/8 x 44 Hose 3/4 Swfjic x 3/4-90 Swfjic	2	2

Notes:

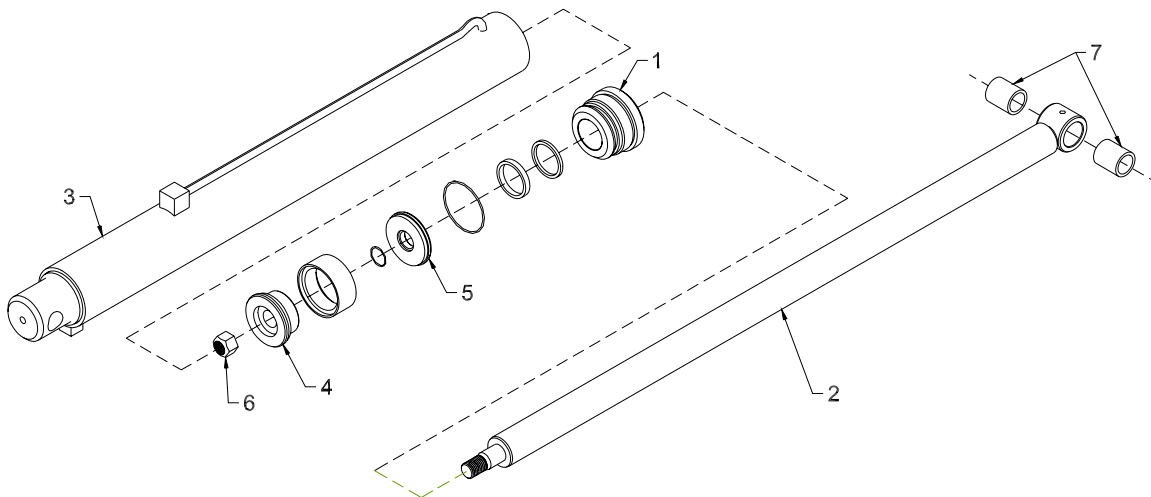
2795 Cylinder Assembly

	<u>Bucket Cylinders</u>		<u>Lift Cylinders Regular</u>
	<u>Regular</u>	<u>TSL</u>	<u>& TSL</u>
Diameter	3.00"	3.00"	3.00"
Length of Stroke	21.50"	19.75"	30.00"
Retracted Length	31.00"	52.25"	41.50"
Extended Length	52.50"	72.00"	71.50"
Cylinder Assembly No.	24913	24915	24314
Seal Kit No.	X1424	X1424	X1424
Shaft Diameter	1.75"	1.75"	1.75"

<u>Item</u>	<u>Description</u>	<u>Part Number</u>	<u>Part Number</u>	<u>Part Number</u>
1	Head Plate	24606	24606	24606
2	Shaft Weldment	114712	114716	112873
3	Cylinder Tube Weld't	24914	24916	24837
4	Piston Half (wide)	112862	112862	112862
5	Piston Half (narrow)	112863	112863	112863
6	Self-Locking Nut	813407	813407	813407
7	Shaft Bushing	114917	114917	113766

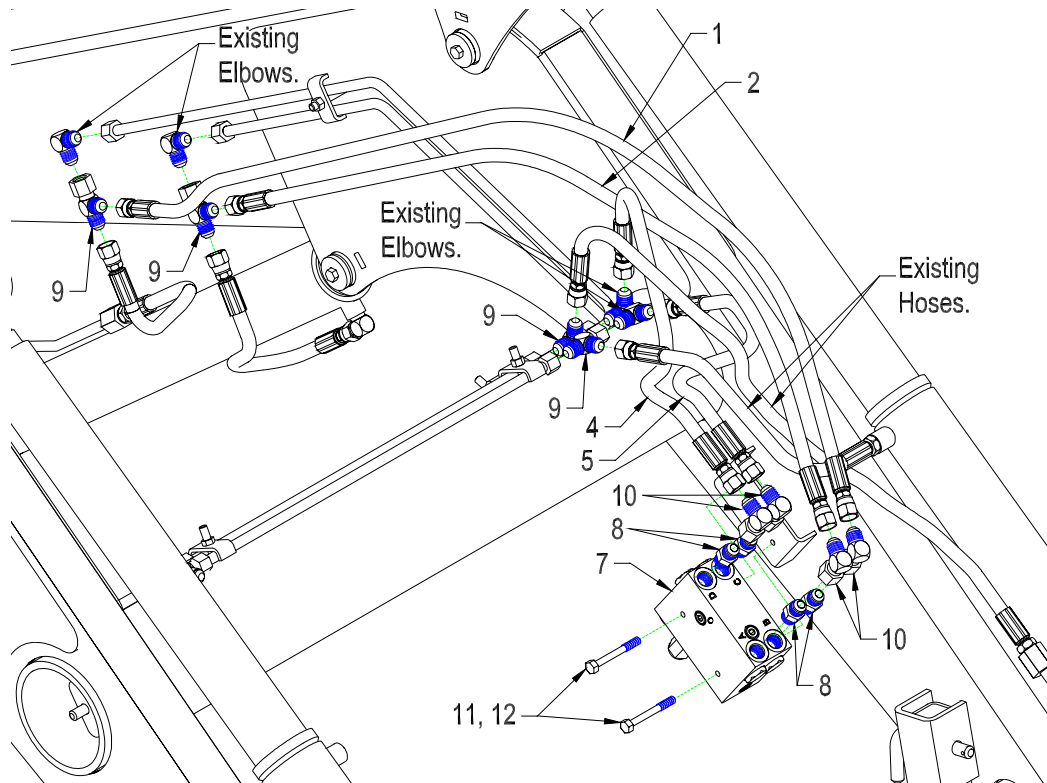
NOTES:

1. Bucket cylinder shown
2. All cylinder seals are contained in corresponding seal kit.
3. Refer to page 44 for prevailing torque for locknuts.



CAUTION Maximum pressure – 3000 psi

True Self Leveling Manifold (2795):



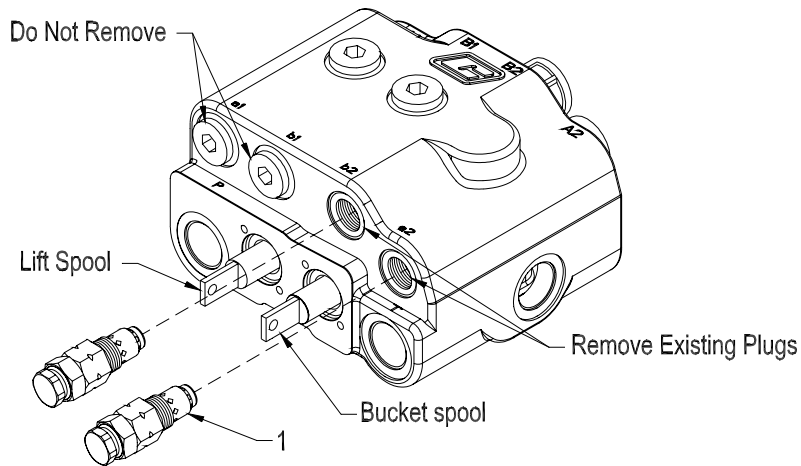
Notes:

1. Additional hardware supplied to suit 2595 installation.
2. Torque all fittings and hoses prior to operating loader. Ensure hoses do not rub or pinch during loader operation. Ty-rap (item 13) supplied; use as required.

Parts list for X2265

Item	Part No.	Description	Qty
1	115196	3/8 x 56 Hose 3/4 Swfjic x Swfjic	1
2	811706	3/8 x 48 Hose 3/4 Swfjic x Swfjic	1
3	115257	3/8 x 38 Hose 3/4 Swfjic x Swfjic	1
4	115260	3/8 x 15 Hose 3/4 Swfjic x Swfjic	1
5	115259	3/8 x 9 Hose 3/4 Swfjic x Swfjic	1
6	115258	3/8 x 6.5 Hose 3/4 Swfjic x Swfjic	1
7	24750	Hydraulic Manifold	1
8	812080	Adaptor Str 3/4 Morb x 3/4 Swfjic	4
9	812786	Tee 3/4 Mjic x 3/4 Swfjic	4
10	812829	Elbow 90 3/4 Mjic x 3/4 Swfjic	5
11	812052	Bolt Hex 0.250nc x 3.00gr5 pl	2
12	81922	Nut Lock (Nylon) 0.250nc grbpl	2
13	812075	Ty-Rap	3

Cartridge:



Notes:

1. A2 & B2 service ports must be used for bucket cylinders only.
2. Remove plugs from a2 & b2 and replace with item 1(cartridge).

Parts List X2264

Item	Part No.		Qty.
1	813353	Relief / Anticav Valve (KM85/86)	2

Hydraulic Fitting Torques:

Dash Size	Thread Size	Jam Nut or Straight		SAE 37° (JIC)	
		ORB Fitting Torque		Swivel Nut Torque	
		(ft-lbs)	(NM)	(ft-lbs)	(NM)
-04	7/16-20	14-16	20-22	10-11	13-15
-05	1/2-20	18-20	24-27	13-15	18-20
-06	9/16-18	24-26	33-35	17-19	23-26
-08	3/4-16	50-60	68-78	34-38	47-52
-10	7/8-14	72-80	98-110	50-56	69-76
-12	1-1/16-12	125-135	170-183	70-78	96-106
-14	1-3/16-12	160-180	215-245	80-90	110-122
-16	1-5/16-12	200-220	270-300	94-104	127-141
-20	1-5/8-12	210-280	285-380	124-138	169-188
-24	1-7/8-12	270-360	370-490	156-173	212-235

Prevailing Torque Locknuts:

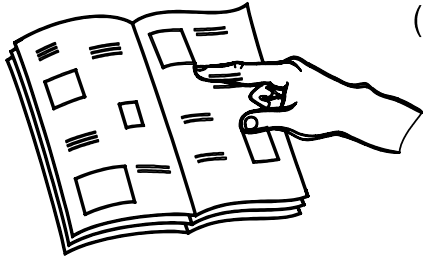
Nut Size and Threads	Grade B Nuts		Grade C Nuts	
	Nut Tightening Torque		Nut Tightening Torque	
	(ft-lbs)	(NM)	(ft-lbs)	(NM)
Coarse Thread				
0.250-20	5-7	7-9	7-10	9-14
0.313-18	9-12.5	12-17	11-16	15-22
0.375-16	14.5-20	20-27	20-28	27-38
0.438-14	23-32	31-43	31-43	42-58
0.500-13	37-50	50-68	45-62.5	61-85
0.563-12	50-70	68-95	70-95	95-129
0.625-11	70-95	95-129	90-122.5	122-166
0.750-10	125-165	169-224	155-210	210-285
0.875-9	185-250	251-339	225-312.5	305-423
1.000-8	275-375	373-508	360-462.5	488-627
Fine Thread				
0.250-28	5.5-7.5	7-10	7-10	9-14
0.313-24	10-13	14-18	12-17	16-23
0.375-24	16-22	22-30	21-29	28-39
0.438-20	24-34	33-46	31-43	42-58
0.500-20	37.5-52.5	51-71	50-70	68-95
0.563-18	57.5-77.5	78-105	70-95	95-129
0.625-18	72.5-97.5	98-132	90-125	122-169
0.750-16	120-165	163-224	155-210	210-285
0.875-14	200-270	271-366	225-312.5	305-423
1.000-14	300-400	407-542	362.5-500	491-678

Notes:

- 1) For Grade A locknut torque specifications refer to Grade B specifications.

WARNING!

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



MANUAL MUST BE READ AND
UNDERSTOOD BY OPERATOR.

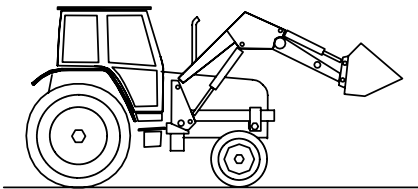
TRANSPORT

EMBLEMS MUST BE VISIBLE

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

NEVER LEAVE EQUIPMENT IN
RAISED POSITION.

POWER LINES
CAN KILL



SERVICE

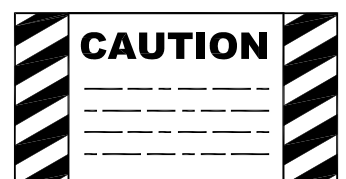
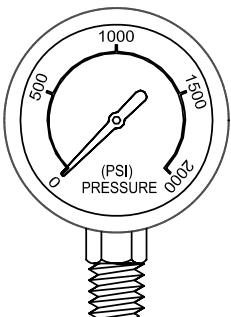
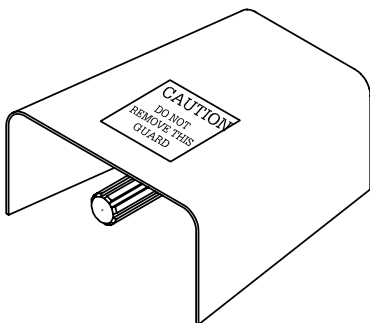
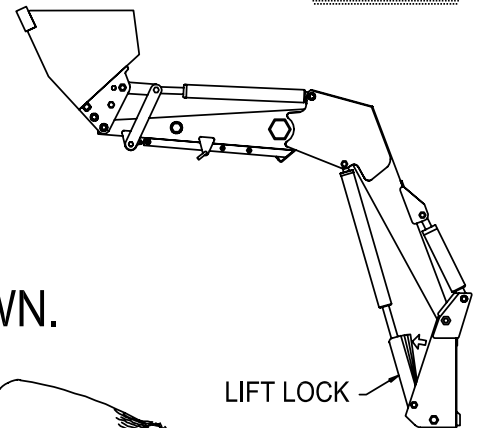
SERVICE EQUIPMENT ONLY
WHEN STOPPED AND WITH
LIFT LOCKS IN PLACE AS SHOWN.

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)



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