

EZEE-ON

MODEL

2090s-2090

2095s-2095

FRONT-END LOADER

OWNERS' MANUAL

and

PARTS LIST

Manufactured

by

Ezee-On Mfg. Ltd.

Vegreville, Alberta

Canada

WARRANTY
EZEE-ON WARRANTY FOR AGRICULTURAL PRODUCTS

EZEE-ON warrants each item of new EZEE-ON equipment sold by it to be free from defects in material and workmanship under recommended agricultural use. This warranty is void if equipment is used for other than agricultural purposes. The sole obligation of EZEE-ON under this warranty is limited to the repair or replacement of those part(s) (F.O.B. EZEE-ON Factory) of the equipment which EZEE-ON in its sole discretion, determines to have failed as a result of defects in material or workmanship occurring prior to the expiration of one year ("Warranty Period") from delivery by EZEE-ON or its selling dealer ("Dealer") to the original purchaser ("Purchaser"). Such defective part(s) will, at the option of EZEE-ON, be either repaired or replaced only to the Purchaser and must be effected by the selling Dealer.

The Purchaser must, within the Warranty Period, give written notice to the Dealer, from whom the equipment was purchased, of any claimed defect. The Dealer will have a reasonable time under the circumstances then existing, to repair or replace defective part(s). This warranty shall not cover damage to any other part(s) of the equipment caused as a result of delay by the Purchaser to repair or replace defective part(s). EZEE-ON's LIABILITY UNDER THIS WARRANTY SHALL BE LIMITED TO, AND IN NO CASE BE GREATER THAN, THE COST OF THE REPAIR OR REPLACEMENT OF THE PART(S) COVERED. THIS WARRANTY SHALL SPECIFICALLY EXCLUDE ANY OTHER COSTS, INCLUDING BUT NOT LIMITED TO, LOSS AND/OR DAMAGE TO CROPS, LOSS OF USE, LOSS OF PROFIT, REVENUE OR OTHER COMMERCIAL LOSSES, INCONVENIENCE OR COST OF REPAIR OR REPLACEMENT EQUIPMENT, TRANSPORTATION EXPENSE TO AND FROM DEALER'S PREMISES, SERVICE CALLS, NORMAL MAINTENANCE AND UPKEEP COSTS, OVERTIME LABOUR COSTS AND ANY AND ALL INJURIES, CLAIMS OR SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGE OR OTHER ECONOMIC LOSS. THE FOLLOWING ITEMS ARE SPECIFICALLY EXCLUDED FROM WARRANTY:

ALL PRODUCTS -	RUBBER TIRES AND TUBES, WHICH ARE WARRANTED DIRECTLY BY AGENTS OF THE TIRE MANUFACTURERS.
CULTIVATORS/CHISEL PLOWS -	BENT SHANKS AND ALL GROUND ENGAGING TOOLS.
AIR SEEDERS -	TANK PAINT IF DAMAGE IS CAUSED BY CHEMICAL AGENTS.
DISCS -	DISC BLADES.
FRONT END LOADERS -	BUCKET TEETH AND GRAPPLE TEETH. MODIFICATIONS TO LOADER MOUNTS TO ADAPT TO CHANGES MADE BY TRACTOR MANUFACTURERS IN TRACTOR DESIGN.
POST DRIVERS -	ENGINE & ENGINE PARTS WHICH ARE WARRANTED DIRECTLY BY AGENTS OF THE ENGINE MANUFACTURER.

This warranty applies only to new equipment, manufactured by EZEE-ON. This warranty does not cover damage caused to or by any equipment, accessories or part(s) attached to or utilized in conjunction with EZEE-ON equipment. This warranty does not cover damage caused as a result of attachment, modification and incorrect assembly or pre-delivery.

This warranty constitutes the only warranty and is in lieu of any other warranty expressed or implied. There is no warranty of merchantability or of fitness for a particular purpose. No Dealer, salesman or agent has any authority to alter or amend this warranty.

TYPE OF EZEE-ON PRODUCT PURCHASED _____

MODEL NUMBER _____

SERIAL NUMBER _____

This identification should be provided in all correspondence or communication with EZEE-ON regarding your Implement.

INTRODUCTION

Thank-you for deciding to purchase an Ezee-On Loader. In addition to having traditional Ezee-On reliability and durable Loader, your new loader incorporates a number of operational and safety features. We urge you to familiarize yourself with the operation and maintenance of your Loader by reading this manual carefully.

Remember that it is the responsibility of the operator to ensure that the loader is ready for operation. However, should you encounter a problem, please contact your Dealer immediately.

This manual contains the following:

- initial setup instructions
- operating instructions
- parts list

READ THIS BOOK CAREFULLY TO ENSURE THAT YOUR NEW LOADER IS ASSEMBLED AND MOUNTED PROPERLY



Right and left is determined by standing behind the machine and facing forward, in the direction of travel.

Gee-On reserves the right to make changes in the model or specifications without any obligations as to replacement or modification in previous machines.



This symbol is used to identify important "CAUTION" and "IMPORTANT" messages. When you see this symbol, read the safety message carefully.

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LOADER SAFETY RECOMMENDATIONS



Watch for this symbol. It identifies important safety messages. When you see this symbol, read the safety message carefully.

GENERAL SAFETY

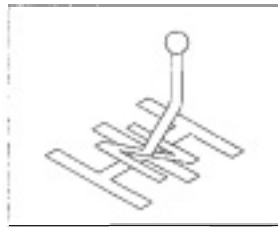
1. Never allow anyone to ride on any portion of the loader or tractor. The person may fall and be seriously or fatally injured.
2. Machinery should be operated **ONLY** by a person(s) responsible and qualified to do so. In case of a breakdown or injury, the person(s) should be familiar with repair procedures and temporary First Aid Treatment.
3. Never allow anyone to climb or play on the loader and tractor. The person may fall and be seriously or fatally injured.
4. Follow all safety precautions in your tractor manual.
5. Keep a First Aid Kit in the tractor.

ASSEMBLY SAFETY

1. Before starting to assembly Model 2095 or 2095S loader, cut shipping bands which secure bucket cylinder and linkage, be sure to remove wooden block between bucket cylinder and frame.
2. Use an aligning punch to line up holes. Keep your fingers out of these holes. Heavy component could move causing serious injury.
3. Use a hoist or adequate manpower to lift the heavy components into place. Use adequate jacks or support material.
4. Be sure all bolts and hydraulic fittings are tight, and all cotter pins are installed in pins and slotted nuts. Loose bolts, hydraulic fittings and missing cotter pins may result in serious damage to the loader and tractor, and possible personal injury.
5. Place adequate support under the bucket when installing or removing bucket teeth. If the hydraulic system failed, or if the hydraulic lever was accidentally operated, the bucket will drop, resulting in serious injury.
6. Always use wood or cardboard as a backstop against spurting fluid. Wear gloves and eye protection when searching the hydraulic system for leaks. **Hydraulic** fluid escaping **under** pressure can cause personal injury by penetrating skin. If injured, get medical attention immediately.
7. Do not disassemble or loosen hydraulic components when there is pressure within those components. Parts and fluid could fly out at a high velocity, causing serious injury to those nearby.

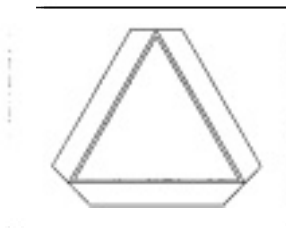
MAINTENANCE SAFETY

1. Do not disassemble or loosen hydraulic components ~~when~~ there is pressure within those components. Parts and fluid could fly out at a high velocity, resulting in serious injury. Always relieve the pressure in the hydraulic system.
2. Always use wood or cardboard as a backstop, and wear gloves and eye protection when searching the hydraulic system for leaks. Hydraulic fluid escaping under pressure can cause personal injury by penetrating the skin. If injured, get medical attention immediately.
3. Always relieve the pressure in the hydraulic system before making any adjustments or when parking the loader. Hydraulic fluid escaping under pressure can cause personal injury by penetrating the skin.
 - a) If injured by escaping hydraulic fluid, see a medical doctor immediately. Serious infection or a reaction can develop if proper medical attention is not administered at once.
 - b) Always permit parts which contain hot fluid to cool to a safe temperature before handling or disconnecting these parts.
4. Be sure all hydraulic cylinders are completely filled with hydraulic fluid to avoid loader free-fall or sudden movements. If the cylinders are not completely filled, the loader will drop.
5. Lower the loader arms when parking or servicing the loader and tractor. If the hydraulic lever was accidentally operated, or if any other component of hydraulic system failed, the loader will fall causing serious injury or death to person(s) nearby.
6. Do not service or adjust the loader while the tractor and loader are in operation. Serious injury may occur if you are caught or struck by moving heavy components. When servicing or adjusting the loader, always ~~put~~ all tractor controls in neutral, set the park brake and shut the engine off.



TRANSPORT SAFETY

1. Use the "SMV" emblem and warning lights for the protection of the tractor and other motor vehicle operators when transporting the loader on public roads. Check local laws regarding transport regulations.



2. Keep the loader arms in a low position during transport at all times, especially when carrying a load. Carrying the loader in a raise position will decrease tractor stability resulting in possible tractor upset causing serious damage to the loader and tractor, and serious injury or death to you or those nearby.

TRANSPORT SAFETY CONTINUED:

3. Never transport the loader with the bucket (or any other attachment) in the "DUMP" position. If the hydraulic system failed, or if the hydraulic lever was accidentally operated, the loader will drop, causing the bucket (or attachment) to dig into the ground. This may result in serious injury or death to the operator and serious damage to the tractor and loader, especially if the tractor is moving at a high rate of speed.

Transporting the loader with the bucket (or any other attachment) in the "MAXIMUM ROLLBACK" position will minimize the injury to the operator and damage to the tractor and loader should the loader drop while it is in motion.

4. Regulate your speed on hillsides and curves to reduce the danger of tipping over. Moving at high speeds on hillsides or on curves will increase the danger of tipping over, especially when carrying a load.



OPERATION SAFETY

1. Make sure the person(s) nearby are standing clear before you start to move the tractor and loader. The person(s) may be struck or caught by the moving tractor, resulting in serious injury or death.
2. Use extra care when operating the tractor and loader on hillsides. Operating the tractor and loader at high speeds on hillsides will increase the danger of tipping over, especially when carrying a load.
3. Never stand under any part of the loader or attachment when the loader arms are in a raise position. If the hydraulic system failed, or if the hydraulic lever was accidentally operated, or if any other component failed, the loader or attachment will drop, resulting in serious injury or death to you or those nearby.
4. Move and turn the tractor at low speeds. Operating the tractor at high speeds reduces tractor stability, causing possible tractor upset which could result in serious injury or death to the operator and serious damage to the loader and tractor.
5. Do not try lifting loads beyond the capacity of the loader. Possible tractor upset caused by tractor instability could result in serious injury or death to the operator and serious damage to the tractor and loader.
6. Use a Grapple Fork ONLY when carrying round bales with the bucket, or use an approved Round Bale Fork. Use of unapproved forks attached to the bucket, or any other unapproved attachments to carry round bales may result in injury or death to operator or person(s) nearby and serious damage to the loader due to bale instability. Bale instability can result in bale falling off attachment while being raised or transported.
7. Never use the loader (or any other attachment) as a man-lift. If the hydraulic system failed, or if the hydraulic lever was accidentally operated, or if any other component failed, the loader (or attachment) will drop, resulting in serious injury or death.

OPERATION SAFETY CONTINUED:

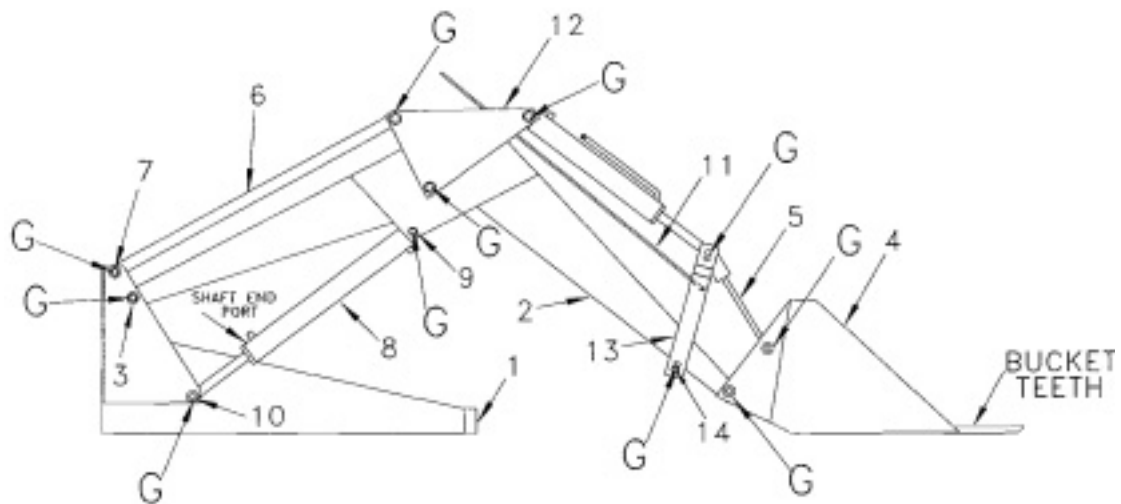
8. When raising a load, level attachment at higher lifting ranges to prevent material ~~from~~ falling on to tractor and/or operator. Falling material may cause serious injury or death to operator and serious damage to tractor and loader.
9. Add necessary wheel ballast or rear weights to increase tractor stability.
10. Move the tractor wheels to their widest possible setting to increase tractor stability.
11. Always relieve the hydraulic systems' pressure when it is not in operation. Hydraulic fluid escaping under pressure could penetrate the skin, causing serious injury. If injured, get medical attention immediately.
12. Use discretion when operating loader if mounted on high horsepower tractors and or front wheel assist tractors. Excessive use of horsepower may severely damage loader.
13. Never leave loader unattended in raised position. Always lower attachment to ground when loader is not being used. Serious injury or death may result to person(s) nearby if loader dropped or load fell off attachment.

SAFEN DECALS

1. Keep all decals clean and in good condition to provide **you** with a constant reminder of safe operating procedures.
2. Replace any destroyed, missing or illegible decals.

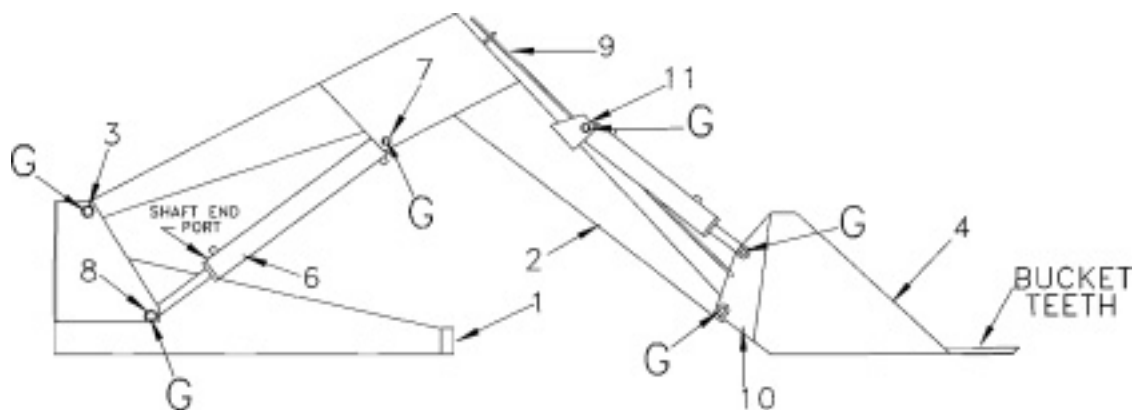
**BE CAREFUL...
AVOID ACCIDENTS!!!**

ILL. 1
Model 2095-2095s

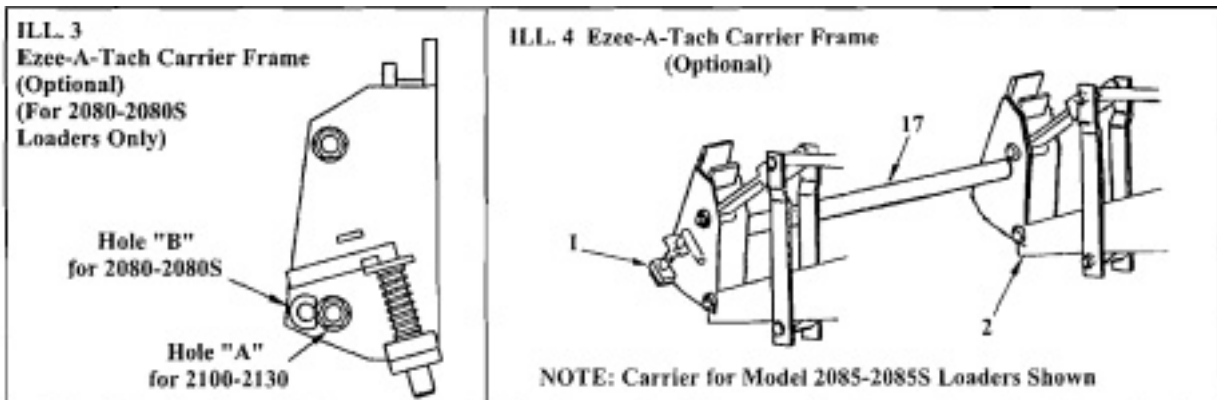


Arrow "G" indicates location of grease fitting.

ILL. 2
Model 2090-2090S



Arrow "G" indicates location of grease fitting.



ASSEMBLY INSTR

1. Attach mount brackets to tractor. See instructions in mount bolt package.
2. **IMPORTANT:** See ILL. 1. Model 2095S - 2095 only. Break shipping bands and remove wooden blocks used to secure bucket cylinder and linkage for shipping. Next position one (1) pivot arm, arrow 13, over inside and outside of each front H-frame arm. Fasten each set of arms to pivot tube, arrow 17, at bottom of H-frame arm with one (1) 1" x 6" hex. bolts clw locknut.
3. Install grease fittings in main frame, self-levelling linkage (2095-2095s only), and cylinders. Arrow "G" in ILL. 1 shows grease fitting location for 2095S-2095 loader. Arrow "G" in ILL. 2 shows grease fitting location for 2095S-2095 loader.
4. Position yoke assembly, arrow 1, so that it is sitting squarely on ground as shown in ILL. 1 and 2.



WARNING: WHEN ASSEMBLING THE LOADER, USE ALIGNING PUNCH TO ALIGN HOLES. KEEP FINGERS OUT OF THESE HOLES. HEAVY COMPONENTS COULD MOVE, CAUSING SERIOUS INJURY.



CAUTION: WHEN ASSEMBLING LOADER, USE HOIST OR USE ADEQUATE MANPOWER TO LIFT HEAVY COMPONENTS INTO PLACE. USE ADEQUATE JACKS OR SUPPORT MATERIAL.

5. INSTALLING MAIN FRAME ASSEMBLY:
 - a) Model 2095-2095s - Attach the main frame, arrow 2, to the middle pin, arrow 3, on the yoke assembly, arrow 1. Secure each pin with one (1) 1/4" x 1-1/2" cotter pin. See ILL. 1.
 - b) Model 2095-2095s - Attach self-levelling link, arrow 6, to top pin, arrow 7, on each side of yoke assembly, arrow 1. Secure each pin with one (1) 1/4" x 1-1/2" cotter pin. See ILL. 1.
 - c) Model 2090-2090S - Attach the main frame, arrow 2, to the top pin, arrow 3, on each side of yoke assembly, arrow 1. Secure each pin with one (1) 1/4" x 1-1/2" cotter pin. See ILL. 2.

NOTE: *To assembly the yoke, main frame and bucket, it may be necessary to spread apart the arms of the main frame, arrow 2, with a jack.*

6. **STANDARD BUCKET** - See ILL. 1 and 2. Attach bucket, arrow 4, to main frame, arrow 2, using the bottom bucket attaching pins. Attachments other than a bucket, such as a Model 49 pallet fork, Model 49 bale spear, all pin to the main frame using the bottom holes. Secure each pin with (1) one 1/4" x 1-1/2" cotter pin.

EZEE-A-TACH CARRIER (Optional) - See ILL. 3 and 4. The Ezee-A-Tach carrier is factory assembled in wide position for wider loaders, such as the Model 2100 or 2130. Before attaching carrier it will be necessary to place carrier in narrow position. This is done by removing bolt from telescopic cross tube and collapsing assembly to its narrow position. After adjustment is complete install bolt in cross tube and secure with nut. When attaching Ezee-a-Tach carrier frame on Model 2090 and 2090S loaders, secure the main frame to bottom pin "B" shown in ILL. 3. Do not use hole "A", this hole is for the Model 2100-2130 loaders. Secure each pin with (1) one 1/4" x 1-1/2" cotter pin.

Attach Ezee-A-Tach carrier for Model 2095 and 2095S Loaders to main frame to bottom pins as shown in ILL. 4. Secure each pin with (1) one 1/4" x 1-1/2" cotter pin.

See "OPERATION" on page 14 for instructions on how bucket is installed on the Ezee-A-Tach Frame. Other attachments will be installed using the same method as bucket.

ASSEMBLY INSTRUCTIONS continued:

7. a) See ILL. 1. Model 2095-2095s - Attach tube end of push arm assembly, arrow 5, to top pin on each side of bucket, arrow 4. Secure each pin with one (1) 11/4" x 1-1/2" cotter pin.
- b) See ILL. 2. Model 2090-2090S - Attach two (2) bucket cylinders, arrow 5, with the tube end attached to the cylinder lugs, arrow 13, on each side of main frame. Attach shaft end of each bucket cylinder to the top bucket attaching pins. Ports on the cylinders must be facing up. Position shaft end cross tube so grease fitting is facing up. Secure each pin with one (1) 1/4" x 1-11/2" cotter pin. Identify bucket cylinder from Table I below.
8. a) See ILL. 1. Model 2095-2095s - Attach two (2) lift cylinders, arrow 8, with the tube end attached to centre pin, arrow 9, on each side of main frame. Attach the shaft end of each lift cylinder to bottom pin, arrow 10, on the yoke assembly. The shaft end ports on the cylinders must be facing up. Position shaft end cross tube so grease fitting is facing up. Secure each pin with one (1) 1/4" x 1-1/2" cotter pin. Identify lift cylinders from Table I below.
- b) See ILL. 2. Model 2090-2090S - Attach two (2) lift cylinders, arrow 6, with the tube end attached to centre pin, arrow 7, on each side of main frame. Attach the shaft end of each lift cylinder to bottom pin, arrow 8, on the yoke assembly. The shaft end ports on the cylinders must be facing up. Position shaft end cross tube so grease fitting is facing up. Secure each pin with one 11/4" x 1-1/2" cotter pin. Identify lift cylinder from Table I below.

TABLE I CYLINDER IDENTIFICATION CHART

MODEL	CYLINDER APPLICATION	PISTON DIAMETER	STROKE	C.C. CLOSED DIMENSION " A
2090-2090S	Bucket	3"	18"	26-1/2"
2095-2095S	Bucket	3"	19-11/2"	33-1/8"
2090S-2095S	Lift	3"	27"	35-1/2"
2090-2095	Lift	3"	27"	35-1/2"



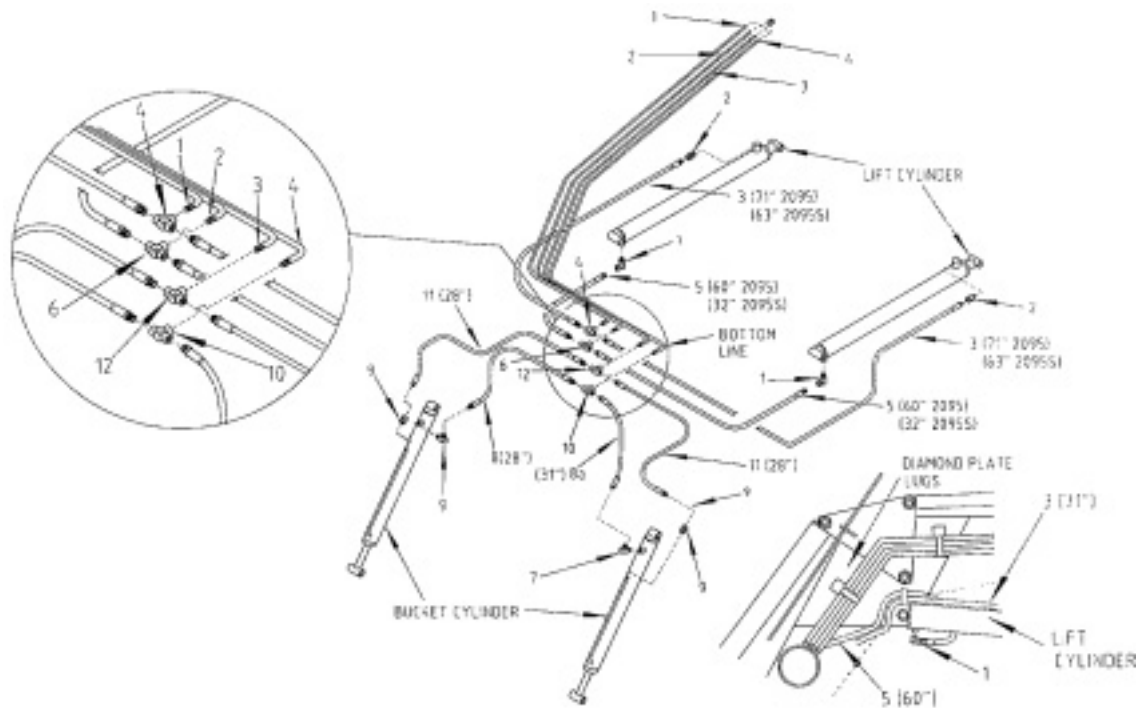
CAUTION: WHEN ASSEMBLING THE LOADER, BE SURE ALL BOLTS AND HYDRAULIC FITTINGS ARE TIGHT, AND ALL COTTER PINS ARE INSTALLED IN THEIR PINS AND SLOTTED NUTS. LOOSE BOLTS, HYDRAULIC FITTINGS AND MISSING COTTER PINS MAY RESULT IN SERIOUS DAMAGE TO THE LOADER AND TRACTOR, AND POSSIBLE PERSONAL INJURY.

9. BUCKET LEVEL INDICATOR INSTALLATION:

- a) See ILL. 1. Model 2095-2095S. To attach the bucket level rod, arrow 11, install the rod through the rod support welded to the inside of the R.H. self-levelling bracket, arrow 12. Insert the formed end of the rod into a 13/32" dia. hole in the RH pivot arm, arrow 13. Secure rod to pivot arm with one (1) washer and cotter pin. After the loader is completely assembled and mounted on the tractor, adjust the bucket level indicator. See ADJUSTMENTS on page 18.
- b) See ILL. 2. Model 2090-2090S. To attach the bucket level rod, arrow 9, install the rod through the rod support welded to the inside of the RH side of main frame, arrow 2. Insert the formed end of the rod into a 13/32" dia. hole in the RH inside bucket lug, arrow 10. Secure rod to bucket lug with one (1) washer and cotter pin. After the loader is completely assembled and mounted on the tractor, adjust the bucket level indicator. See ADJUSTMENTS on page 18.

ASSEMBLY INSTRUCTIONS CONTINUED:

ILL. 5 (MODEL 2095S-2095)



10. CONNECTING HYDRAULIC SYSTEM - MODEL 2095-2095s - See ILL. 5

IMPORTANT: CLEANLINESS IS ABSOLUTELY NECESSARY TO PREVENT CONTAMINATION WHEN HOOKING UP HYDRAULIC COMPONENTS. HANDLE THE FITTINGS CAREFULLY. DO NOT REMOVE THE CAPS FROM THE PIPE AND HOSE ENDS UNTIL ALL FITTINGS ARE INSTALLED.

NOTE: Use good quality sealant on fittings and hoses to prevent leaks.

- Install one (1) 3/8" x 90 degree swivel street elbow, arrow 1, to the barrel end port of each lift cylinder. Elbow should face forward after elbow is tightened.
- Install one (1) 3/8" male-female swivel, arrow 2, to the shaft end port of each lift cylinder.
- Model 2095 - See ILL. 5. Connect one (1) 3/8" x 71" hydraulic hose, arrow 3, to 3/8" tee, arrow 10, on the #1 oil line at the centre of the main frame. Then fasten the opposite end to the 3/8" male female swivel, arrow 2, on the lift cylinders. Thread hose as shown.

Model 2095S - See ILL. 5. Connect one (1) 3/8" x 63" hydraulic hose, arrow 3, to 3/8" tee, arrow 4, on the #1 oil line at the centre of the main frame. Then fasten the opposite end to the 3/8" male-female swivel, arrow 2, on the lift cylinders. Thread hose as shown.

ASSEMBLY INSTRUCTIONS CONTINUED:

- d) Model 2095 - See ILL 5. Connect one (1) 3/8" x 60" hydraulic hose, arrow 5, to the 3/8" tee, arrow 6, on the #2 oil line at the centre of the main frame. Then fasten the opposite end to the 3/8" x 90 degree swivel street elbow, arrow 1, on the lift cylinders. Thread hose as shown.

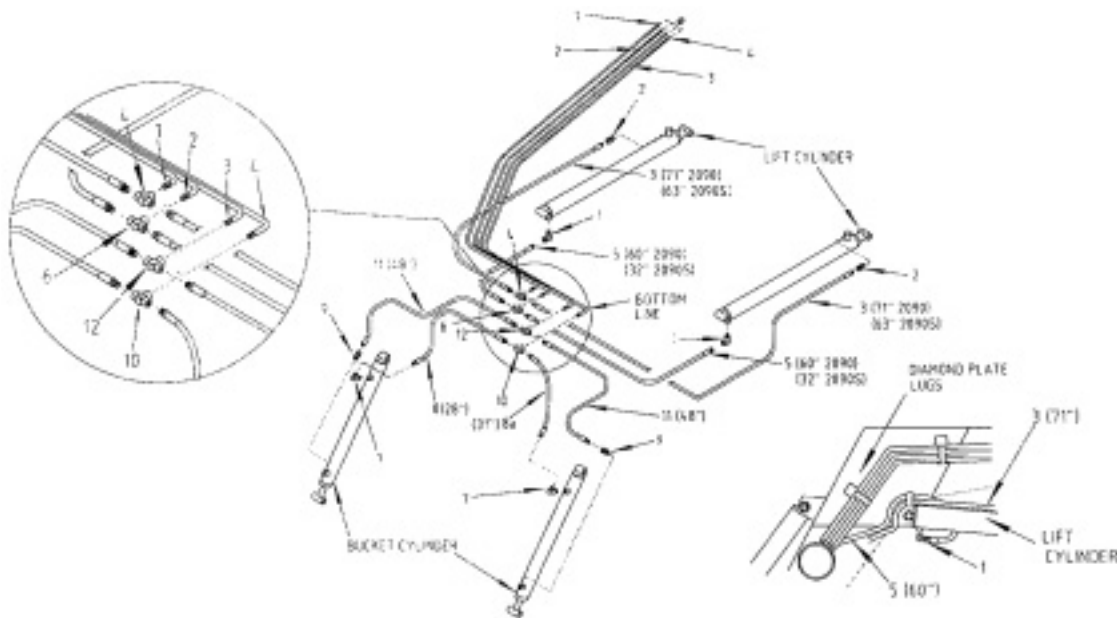
Model 2095S - See ILL. 5. Connect one (1) 3/8" x 32" hydraulic hose, arrow 5, to the 3/8" tee, arrow 6, on the #2 oil line at the centre of the main frame. Then fasten the opposite end to the 3/8" x 90 degree swivel street elbow, arrow 1, on the lift cylinders.

- e) Model 2095-2095s - Install one (1) 3/8" x 90 degree swivel street elbow, arrow 7, to the barrel end port of each bucket cylinder. Then for LHS connect one (1) 3/8" x 31" hydraulic hose, arrow 8, to 3/8" tee, arrow 10, mounted on the #4 oil line at the centre of the main frame. For the RHS connect one (1) 3/8" x 28" hydraulic hose, arrow 8A, to opposite port of 3/8" tee arrow 10. Then fasten the opposite end of each hose to each 3/8" x 90 degree swivel street elbow, arrow 7.
- f) Model 2095-2095s - Install one (1) 3/8" female-female swivel, arrow 9, to the shaft end port of each bucket cylinder. Then connect one (1) 3/8" x 28" hydraulic hose, arrow 11, to each port 3/8" tee, arrow 12, mounted on the #3 oil line at the centre of the main frame. Then fasten the opposite end of each hose to each 3/8" female-female swivel, arrow 9.
- g) Connect four long hoses to the four lines at the rear of the main frame. Install four male tips to the hoses and connect these hoses to the tractors' hydraulic system.
- h) Pump hydraulic fluid into the bucket and lift cylinders. Ensure all hydraulic cylinders are completely filled with hydraulic fluid before operating the loader.

IMPORTANT: WHEN APPLYING HYDRAULIC PRESSURE FOR THE FIRST TIME, A SMALL AMOUNT OF OIL MAY LEAK FROM BETWEEN HEAD PLATE AND BARREL. THIS IS ASSEMBLY OIL TRAPPED UNDER HEAD PLATE O-RING. AFTER THIS OIL IS SQUEEZED OUT, THE LEAK WILL STOP.

ASSEMBLY INSTRUCTIONS CONTINUED:

ILL. 6 (MODEL 2090S-2090)



11. CONNECTING HYDRAULIC SYSTEM - MODEL 2090-2090S - See ILL. 6

IMPORTANT: CLEANLINESS IS ABSOLUTELY NECESSARY TO PREVENT CONTAMINATION WHEN HOOKING UP HYDRAULIC COMPONENTS. HANDLE THE FITTINGS CAREFULLY. DO NOT REMOVE THE CAPS FROM THE PIPE AND HOSE ENDS UNTIL ALL FITTINGS ARE INSTALLED.

NOTE: Use good quality sealant on fittings and hoses to prevent leaks.

- Install one (1) 3/8" x 90 degree swivel street elbow, arrow 1, to the barrel end port of each lift cylinder. Elbow should face forward after elbow is tightened.
- Install one (1) 3/8" male-female swivel, arrow 2, to the shaft end port of each lift cylinder.
- Model 2090 - See ILL. 6. Connect one (1) 3/8" x 71" hydraulic hose, arrow 3, to each side of 3/8" tee, arrow 4, on the #1 oil line. Then fasten the opposite end of each hose to the 3/8" male female swivel, arrow 2, on each lift cylinder. Thread hose as shown.

Model 2090S - See ILL. 6. Connect one (1) 3/8" x 63" hydraulic hose, arrow 3, to each side of 3/8" tee, arrow 4, on the #1 oil line. Then fasten the opposite end of each hose to the 3/8" male-female swivel, arrow 2, on each lift cylinder. Thread hose as shown.

ASSEMBLY INSTRUCTIONS CONTINUED:

- d) Model 2090 - See ILL 6. Connect one (1) 3/8" x 60" hydraulic hose, arrow 5, to each side of 3/8" tee, arrow 6, on the #2 oil line. Then fasten the opposite end of each hose to the 3/8" x 90 degree swivel street elbow, arrow 1, on each lift cylinder. Thread hose as shown.

Model 2090S - See ILL. 6. Connect one (1) 3/8" x 32" hydraulic hose, arrow 5, to each side of 3/8" tee, arrow 6, on the #2 oil line. Then fasten the opposite end of each hose to the 3/8" x 90 degree swivel street elbow, arrow 1, on each lift cylinder. Thread hose as shown.

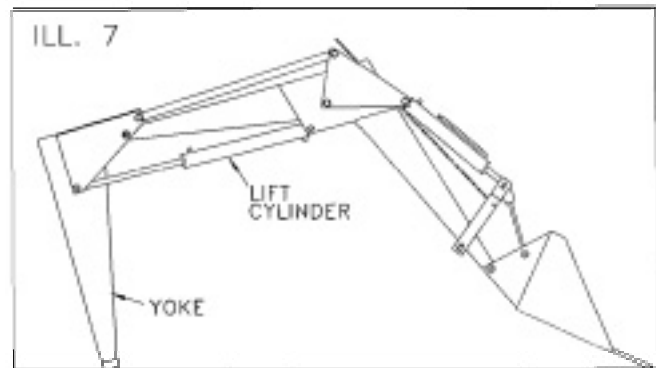
- e) Model 2090-2090S - Install one (1) 3/8" x 90 degree swivel street elbow, arrow 7, to the barrel end port of each bucket cylinder. Then for LHS connect one (1) 3/8" x 31" hydraulic hose, arrow 13, to 3/8" tee, arrow 10, mounted on the #4 oil line. For the RHS connect one (1) 3/8" x 28" hydraulic hose, arrow 8, to opposite port of 3/8" tee arrow 10. Then fasten the opposite end of each hose to each 3/8" x 90 degree swivel street elbow, arrow 7.
- f) Model 2090-2090S - Install one (1) 3/8" male-female swivel, arrow 9, to the shaft end port of each bucket cylinder. Then connect one (1) 3/8" x 48" hydraulic hose, arrow 11, to each port 3/8" tee, arrow 12, mounted on the #3 oil line. Then fasten the opposite end of each hose to each 3/8" male-female swivel, arrow 9.
- g) Connect four long hoses to the four lines at the rear of the main frame. Install four male couplers to the hoses and connect these hoses to the tractors' hydraulic system. (Male couplers not supplied)
- h) Pump hydraulic fluid into the bucket and lift cylinders. Ensure all hydraulic cylinders are completely filled with hydraulic fluid before operating the loader.

IMPORTANT: WHEN APPLYING HYDRAULIC PRESSURE FOR FIRST TIME, A SMALL AMOUNT OF OIL MAY LEAK FROM BETWEEN HEAD PLATE AND BARREL. THIS IS ASSEMBLY OIL TRAPPED UNDER HEAD PLATE O-RING. AFTER THIS OIL IS SQUEEZED OUT, THE LEAK WILL STOP.

ASSEMBLY INSTRUCTIONS CONTINUED:



CAUTION: BE SURE ALL **HYDRAULIC** CYLINDERS ARE COMPLETELY FILLED WITH HYDRAULIC FLUID TO AVOID LOADER FREE-FALL OR SUDDEN MOVEMENT. IF THE CYLINDERS ARE NOT COMPLETELY FILLED, THE LOADER **WILL DROP**.



- 12) Extend the lift cylinders. This will raise the loader into the mounting position, as shown in ILL. 7. The loader is now ready to be mounted on the tractor.



CAUTION: ALWAYS RELIEVE THE HYDRAULIC SYSTEMS' PRESSURE WHEN IT IS NOT IN OPERATION. HYDRAULIC FLUID ESCAPING **UNDER PRESSURE** COULD PENETRATE THE SKIN, CAUSING SERIOUS INJURY.



CAUTION: ALWAYS USE WOOD OR CARDBOARD AS A BACKSTOP AGAINST SPURTING FLUID. WEAR GLOVES AND EYE PROTECTION WHEN SEARCHING THE HYDRAULIC SYSTEM FOR LEAKS. **HYDRAULIC FLUID** ESCAPING UNDER **PRESSURE** CAN CAUSE PERSONAL INJURY BY PENETRATING SKIN.



CAUTION: DO NOT DISASSEMBLE OR LOOSEN HYDRAULIC COMPONENTS WHEN THERE IS PRESSURE **WITHIN** THOSE COMPONENTS. HYDRAULIC COMPONENTS UNDER PRESSURE MAY CAUSE PARTS AND FLUID TO FLY **OUT** AT A **HIGH** VELOCITY, WHICH COULD CAUSE SERIOUS INJURY. ALWAYS RELIEVE THE PRESSURE IN THE HYDRAULIC SYSTEM BEFORE REPAIRING OR MAKING ADJUSTMENTS TO THE HYDRAULIC SYSTEM.

- 13) To mount the loader on the tractor, raise the rear of the yoke by extending the lift cylinders. Drive the tractor between the uprights of the yoke. Align mounting tubes on inside of yoke with mounting channel. Move tractor forward sliding yoke mounting tubes into mount channel until the mounting tubes lock behind latches. By operating the lift cylinders, raise the yoke to the horizontal position by contracting the lift cylinders. Drive the tractor ahead so that the rear tractor pin slides into yoke jaw and locks into position. See MOUNTING INSTRUCTIONS on page 15.

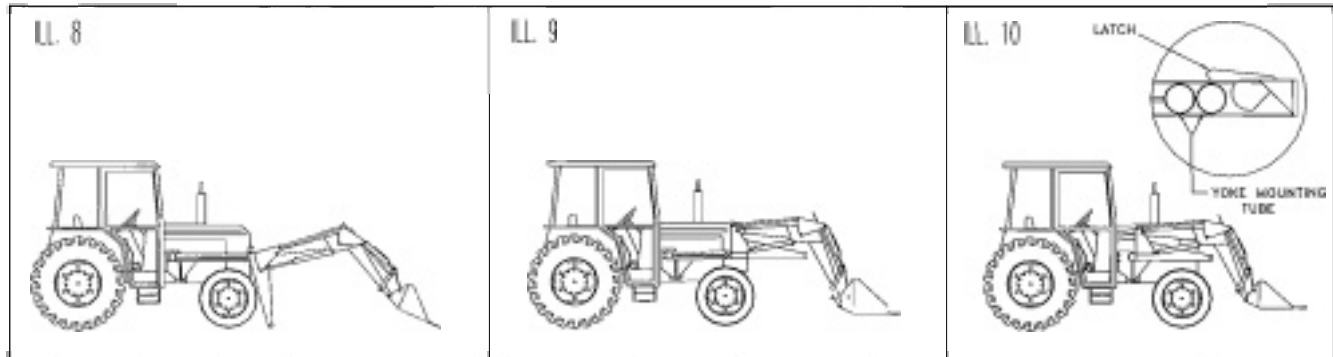
ASSEMBLY INSTRUCTIONS CONTINUED:

14. See ILL. 1 and 2 (Optional). Bolt bucket teeth, arrow 16, to top of bucket blade with two 7/16" x 2-1/4" carriage head bolts complete with nuts and lockwashers. Bolts are installed from bottom of bucket. Teeth should be installed with front point facing down. There are seven (7) teeth required for 60" bucket, eight (8) teeth required for 72" bucket, nine (9) teeth required for 84" bucket, and eleven (11) teeth required for 96" bucket. The bucket teeth supplied include two shorter teeth; install these shorter teeth to the outside set of holes at each of the bucket blade.



CAUTION: WHEN INSTALLING OR REMOVING BUCKET TEETH. PLACE ADEQUATE SUPPORT UNDER BUCKET. IF HYDRAULIC SYSTEM FAILED OR HYDRAULIC LEVER WAS ACCIDENTALLY OPERATED, BUCKET COULD DROP CAUSING SERIOUS INJURY.

15. See ILL. 8. FOR NARROW YOKE ONLY: Narrow yokes have a mount spacer welded to outside of each rear latching jaw. The mount spacer is required only on older tractors mounted prior to 1994. The mount spacer is used to reduce the space between inside of mount and jaw. Tractors mounted later than 1994 with not require ~~the~~ mount spacer. Therefore, the spacer must be **knocked off** each jaw to allow yoke to slide all the way on to mount bracket.



OPERATION

1. LOADER MOUNTING INSTRUCTIONS:

TO MOUNT, THE LOADER MUST BE SITTING ON THE GROUND IN THE POSITION SHOWN ABOVE IN ILL. 9

If the loader is sitting flat on ground, as shown in ILL. 1 and 2, it can be raised into the position shown in ILL. 9, by attaching the hydraulic hoses to the tractor hydraulic system and extending the lift cylinders.

STEP 1: See ILL. 9. Drive the tractor between the uprights of the yoke assembly so the bottom side of the yoke assembly is resting on the front mounting pins.

STEP 2: Attach hydraulic hoses to the tractor hydraulic system.

STEP 3: See ILL. 10. Using the lift cylinders pivot the yoke assembly into a horizontal position.

STEP 4: See ILL. 11. Drive the tractor into the loader so that the rear mounting pins slide into the yoke jaws and lock into position. The loader is securely mounted on the tractor when the latches on the yoke jaw are down behind the mounting pins.

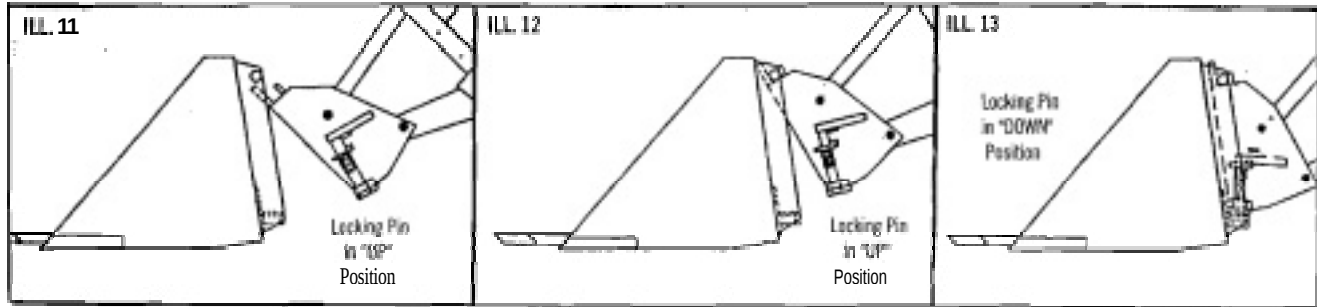
2. TO TAKE THE LOADER OFF THE TRACTOR, LIFT CHANNEL LATCHES ~~AND~~ REVERSE THE STEPS LISTED ABOVE.

IMPORTANT: WHEN TRANSPORTING THE LOADER, ALWAYS ROLL THE BUCKET OR OTHER ATTACHMENT INTO THE "MAXIMUM ROLLBACK POSITION".



CAUTION: NEVER TRANSPORT THE LOADER WITH THE BUCKET OR OTHER ATTACHMENT IN THE "DUMP" POSITION. IF THE HYDRAULIC SYSTEM FAILED OR IF THE HYDRAULIC LEVER WAS ACCIDENTALLY OPERATED, THE LOADER COULD DROP, CAUSING THE BUCKET OR ATTACHMENT TO DIG INTO THE GROUND. THIS COULD RESULT IN SERIOUS INJURY OR DEATH TO THE OPERATOR AND SERIOUS DAMAGE TO THE LOADER AND TRACTOR, ESPECIALLY WHEN THE LOADER IS BEING TRANSPORTED AT HIGH SPEEDS. ALWAYS TRANSPORT THE LOADER WITH THE ATTACHMENT IN MAXIMUM ROLLBACK POSITION.

OPERATION CONTINUED:



3. EZEE-A-TACH SYSTEM (OPTIONAL)

The EZEE-A-TACH system allows the operator to quickly install (or remove) attachment onto (or from) loader. To install attachment proceed as follows:

- STEP 1: See ILL. 12. With the spring-loaded locking pins in the "UP" position and carrier tipped forward, drive the carrier between the brackets of the attachment.
- STEP 2: See ILL. 13. When the carrier makes contact with the back of the attachment, lift the carrier so that the jaws engage with the top pin. Continue lifting the attachment until it is off the ground.
- STEP 3: See ILL. 14. Using the bucket cylinders, pivot the carrier so that it rests against the back of the attachment. Drop the spring-loaded pins into locking slots to lock the carrier to the attachment.

To remove the attachment from the "Ezee-A-Tach" carrier, simply place the spring-loaded pins in the "UP" position and reverse the steps listed above.

4. **IMPORTANT:** WHEN THE LOADER IS MOUNTED ON A TRACTOR EXCEEDING 90 H.P. OR IF THE TRACTOR IS EQUIPPED WITH FRONT WHEEL ASSIST DRIVE, DISCRETION SHOULD BE USED WHEN OPERATING THE LOADER. EXCESSIVE USE OF HORSEPOWER COULD RESULT IN SERIOUS DAMAGE TO THE LOADER.



CAUTION: KEEP THE LOADER ARMS IN A LOW POSITION DURING TRANSPORT AT ALL TIMES, ESPECIALLY WHEN CARRYING A LOAD. CARRYING THE LOADER IN A RAISED **POSITION WILL** DECREASE TRACTOR STABILITY RESULTING IN POSSIBLE TRACTOR UPSET CAUSING SERIOUS DAMAGE TO **THE** LOADER AND TRACTOR, AND SERIOUS **INJURY** OR DEATH TO YOU OR THOSE NEARBY.



CAUTION: WHEN RAISING A LOAD, LEVEL **ATTACHMENT AT** HIGHER **LIFTING** RANGES TO PREVENT MATERIAL FROM FALLING ONTO TRACTOR AND/OR OPERATOR. FALLING MATERIAL MAY CAUSE SERIOUS INJURY OR **DEATH** TO OPERATOR AND SERIOUS DAMAGE **TO** TRACTOR AND LOADER.

OPERATION CONTINUED:



CAUTION: MOVE AND TURN THE TRACTOR AT LOW SPEEDS. OPERATING THE TRACTOR AT HIGH SPEEDS REDUCES TRACTOR STABILITY, CAUSING POSSIBLE TRACTOR **UPSET** WHICH COULD **RESULT** IN SERIOUS **INJURY** OR DEATH TO THE OPERATOR AND SERIOUS DAMAGE TO THE LOADER AND TRACTOR.



CAUTION: NEVER STAND **UNDER** ANY PART OF THE LOADER OR ATTACHMENT WHEN THE LOADER ARMS ARE IN A RAISED **POSITION**. IF ANY COMPONENT OF **THE** HYDRAULIC **SYSTEM** FAILED, OR IF THE HYDRAULIC LEVER WAS ACCIDENTALLY OPERATED, OR IF ANY **OTHER** COMPONENT FAILED, THE LOADER OR ATTACHMENT **WILL** DROP CAUSING SERIOUS INJURY OR DEATH TO YOU OR **PERSON(S)** NEARBY.

5. IMPORTANT: DO NOT WELD OR BOLT ANY ATTACHMENT, SUCH AS A ROUND BALE SPEAR OR BOOM TO THE TOP OF THE BUCKET BLADE. SEVERE DAMAGE WILL OCCUR TO THE BUCKET WHEN A LOAD IS CONCENTRATED AT ONE POINT.



CAUTION: DO NOT TRY LIFTING LOADS BEYOND THE CAPACITY OF THE LOADER. **POSSIBLE TRACTOR UPSET** CAUSED BY TRACTOR INSTABILITY COULD RESULT IN SERIOUS INJURY OR DEATH TO THE OPERATOR AND SERIOUS DAMAGE TO THE LOADER AND TRACTOR.

6. IMPORTANT: DO NOT ATTEMPT TO LIFT A LOAD AT THE CORNER OF THE BUCKET. THE BUCKET COULD BE TWISTED. ALWAYS DISTRIBUTE THE WEIGHT EVENLY FROM THE CENTRE OF THE BUCKET.



CAUTION: ADD NECESSARY WHEEL BALLAST OR REAR WEIGHTS TO INCREASE TRACTOR STABILITY.



CAUTION: MOVE THE TRACTOR WHEELS TO THEIR WIDEST POSSIBLE SETTING TO INCREASE TRACTOR STABILITY



CAUTION: NEVER ALLOW ANYONE TO **RIDE** ON ANY POSITION OF THE LOADER OR TRACTOR. THE PERSON **RIDING** COULD FALL AND BE SERIOUSLY INJURED.

OPERATION CONTINUED:



CAUTION: USE A GRAPPLE FORK ONLY WHEN CARRYING ROUND BALES **WITH** THE BUCKET, **OR** USE AN APPROVED **ROUND** BALE CARRYING FORK. USE OF UNAPPROVED FORKS ATTACHED TO THE BUCKET, OR ANY OTHER UNAPPROVED ATTACHMENTS TO CARRY ROUND BALES MAY **RESULT** IN INJURY OR DEATH TO OPERATOR OR **PERSON(S)** NEARBY AND SERIOUS DAMAGE TO THE LOADER DUE **TO** BALE INSTABILITY. BALE **INSTABILITY** CAN **RESULT** IN BALE ROLLING OFF ATTACHMENT WHILE BEING RAISED OR TRANSPORTED.



CAUTION: NEVER USE THE LOADER OR ATTACHMENT AS A MAN-LIFT. IF THE HYDRAULIC SYSTEM FAILED, OR IF THE HYDRAULIC LEVER WAS ACCIDENTALLY OPERATED, OR IF ANY OTHER COMPONENT FAILED, THE LOADER OR ATTACHMENT COULD DROP, RESULTING IN SERIOUS INJURY OR DEATH.



CAUTION: ALWAYS RELIEVE THE HYDRAULIC SYSTEMS PRESSURE WHEN IT IS NOT IN OPERATION. HYDRAULIC FLUID ESCAPING UNDER PRESSURE COULD PENETRATE THE SKIN, CAUSING SERIOUS INJURY.



CAUTION: NEVER LEAVE LOADER UNATTENDED IN RAISED POSITION. ALWAYS LOWER ATTACHMENT TO GROUND WHEN LOADER IS **NOT** BEING USED. SERIOUS INJURY OR DEATH MAY **RESULT** TO **PERSON(S)** NEARBY IF LOADER DROPPED OR LOAD FELL OFF ATTACHMENT.

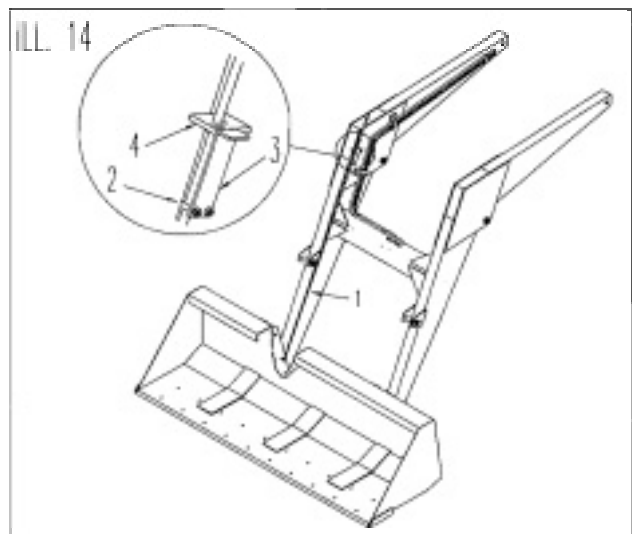
ADJUSTMENTS

1. BUCKET LEVEL INDICATOR - See ILL. 14.

The level indicator rod, arrow 1, is used to indicate position of bucket. To have indicator show when bucket is level on ground, adjust as follows:

- With loader installed on tractor, position bucket level on ground.
- Loosen clamp, arrow 2, which fastens level indicator, arrow 3, to rod.
- Adjust level indicator, arrow 3, so top end is flush with top side of rod support, arrow 4.

NOTE: Model 2090 and **2090S** loader is shown in ILL. 15. The level indicator for Model 2095 and **2095S** loaders are adjusted using the same procedure.



MAINTENANCE and STORAGE

1. Check the hoses and oil lines periodically for signs of ruptures and leaks.



CAUTION: ALWAYS USE A PIECE OF WOOD OR CARDBOARD AS A BACKSTOP AGAINST SPURTING FLUID. ALWAYS WEAR GLOVES AND EYE PROTECTION WHEN SEARCHING **THE** HYDRAULIC SYSTEM FOR LEAKS. HYDRAULIC FLUID ESCAPING UNDER PRESSURE CAN CAUSE PERSONAL INJURY BY PENETRATING SKIN.



CAUTION: DO NOT DISASSEMBLE OR LOOSEN HYDRAULIC COMPONENTS WHEN THERE IS PRESSURE **WITHIN** THOSE COMPONENTS. HYDRAULIC COMPONENTS UNDER PRESSURE MAY CAUSE PARTS AND HYDRAULIC **FLUID** TO FLY OUT AT **HIGH** VELOCITY WHICH COULD CAUSE SERIOUS INJURY. ALWAYS RELIEVE PRESSURE IN HYDRAULIC SYSTEM BEFORE REPAIRING OR MAKING ADJUSTMENTS TO THE HYDRAULIC SYSTEM.

2. When the loader is dismounted from the tractor and is sitting on the ground, contract all the hydraulic cylinders to protect the cylinder shafts from the weather and possible accidental damage.

3. Keep the mounting bracket and bucket teeth bolts tight and be sure all loader pins and slotted nuts are secured with cotter pins.



CAUTION: DO NOT SERVICE OR ADJUST THE LOADER WHILE THE TRACTOR AND LOADER ARE IN OPERATION. IF YOU ARE STRUCK OR CAUGHT BY **HEAVY** MOVING COMPONENTS, SERIOUS INJURY OR DEATH MAY OCCUR. ALWAYS PUT ALL TRACTOR CONTROLS IN **NEUTRAL**, **SET** PARK BRAKE AND SHUT THE ENGINE OFF BEFORE SERVICING OR ADJUSTING **THE** LOADER.



CAUTION: LOWER THE LOADER ARMS WHEN PARKING OR SERVICING THE LOADER AND TRACTOR. IF THE HYDRAULIC LEVER WAS ACCIDENTALLY OPERATED, OR IF ANY COMPONENTS OF THE **HYDRAULIC** SYSTEM FAILED, THE LOADER **WILL** FALL CAUSING SERIOUS INJURY OR DEATH TO **PERSON(S)** NEARBY.

LUBRICATION

1. Grease the cylinder and main frame pivot points (and self-levelling pivot points on Model 2095S and 2095 loaders) every 8 hrs of operation.



CAUTION: ALWAYS **RELIEVE** THE PRESSURE IN HYDRAULIC SYSTEM BEFORE MAKING ANY ADJUSTMENTS OR WHEN PARKING THE LOADER. HYDRAULIC FLUID ESCAPING PRESSURE CAN CAUSE PERSONAL INJURY BY PENETRATING **SKIN** OR EYES.

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

b) Always permit parts which contain hot fluid to cool to a safe temperature before handling or disconnecting these parts.