Ezee-On

MODEL
2100-2105
2130-2135

FRONT-END LOADER

OWNERS' MANUAL
and
PARTS LIST

Manufactured by

Ezee-On Mfg. Ltd.

Vegreville, Alberta
Canada

Printed in Canada

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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 RENTAL 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.**
ISCS -	**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

IANK YOU for choosing to purchase this Ezee-On implement, we are confident you will be impressed with its performance.

In addition to the traditional values of simplicity, reliability and durability, your new EZEE-ON implement incorporates a number of operational and safety features. We urge you to familiarize yourself with the maintenance and operation of your implement by reading this Manual thoroughly and completely. Failure to do so could result in personal injury or equipment damage.

THIS MANUAL contains important information regarding assembly, maintenance, operating instructions, and troubleshooting problems, and should be considered a permanent part of your implement.

Remember that it is the responsibility of the Operator to ensure that any new implement is field ready, prior to first operation. However, should you encounter a problem, please contact your dealer immediately.

READ THIS MANUAL CAREFULLY TO ENSURE THAT YOUR NEW IMPLEMENT IS ASSEMBLED AND ADJUSTED CORRECTLY PRIOR TO FIRST OPERATION.

RIGHT and LEFT is determined by standing behind the machine and facing FORWARD in the direction of travel.

This symbol is used to identify safety messages. When you see this symbol, read the safety message carefully.

INDEX

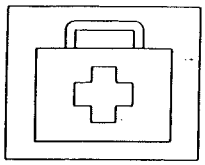
EZEE-ON MFG. LTD. RESERVES THE RIGHT to make improvements in design and changes in specifications at any time without notice and without incurring any obligation to install them on units previously sold. Specifications, descriptions, and illustrative material herein are as accurate as known at time of publication, but are subject to change without notice.

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 2105 or 2135 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

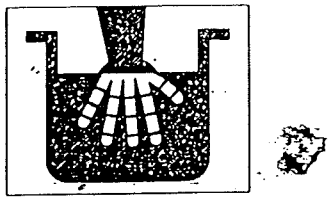
1. Do not disassemble or loosen hydraulic components when there is pressure within those components. Parts and fluid could fly out at a high velocity, resulting in serious injury. Always relieve the pressure in the hydraulic system.

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.



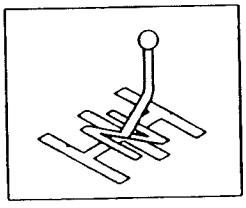
4. Be sure all hydraulic cylinders are completely filled with hydraulic fluid to avoid loader free-fall or sudden movements. If the cylinders are not completely filled, the loader will drop.

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.

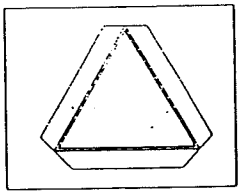
6. Do not service or adjust the loader while the tractor and loader are in operation. Serious injury may occur if you are caught or struck by moving heavy components. When servicing or adjusting the loader, always put all tractor controls in neutral, set the park brake and shut the engine off.

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 hydraulic system 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.

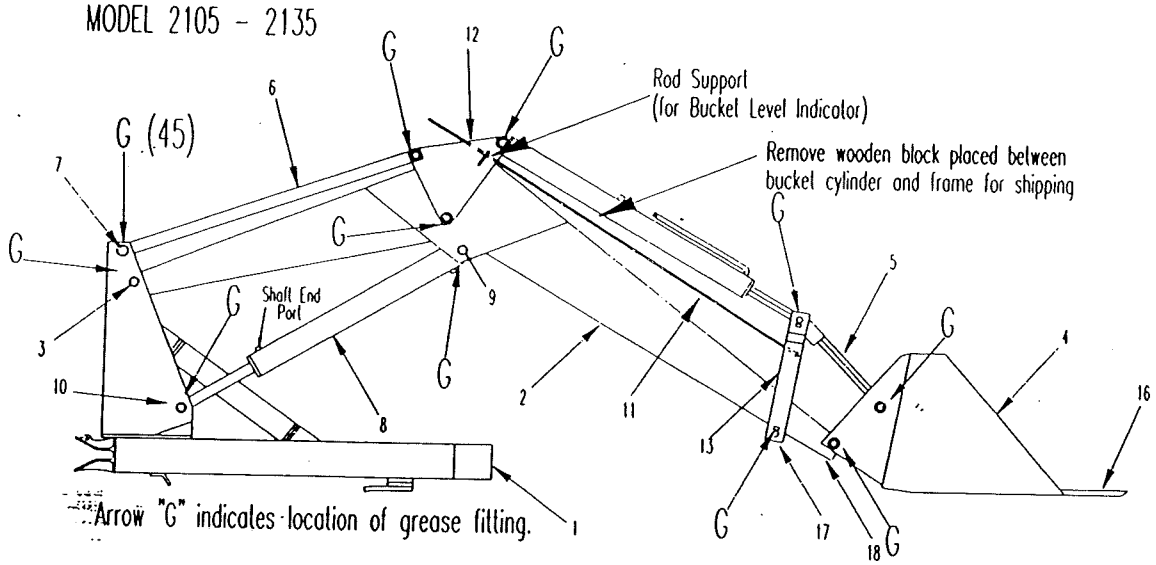
SAFETY DECALS

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.

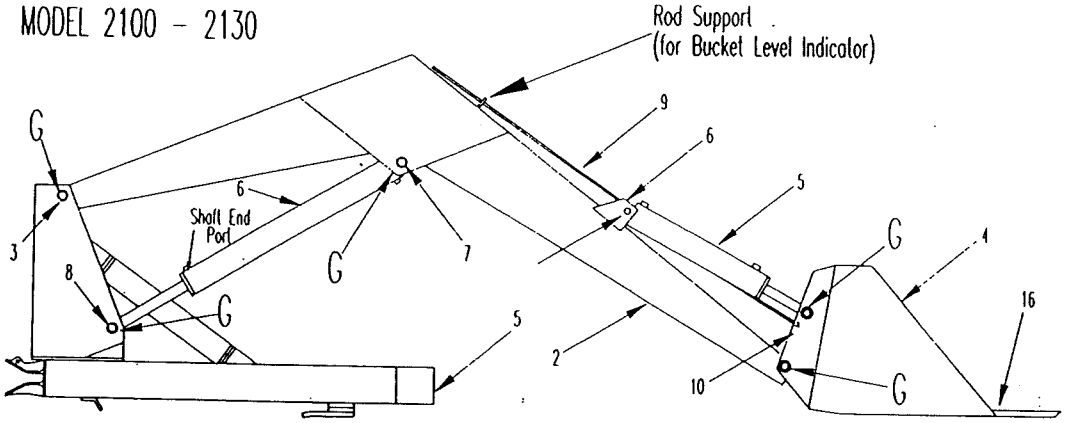
BE CAREFUL...
AVOID ACCIDENTS!!!

ILL. 1
MODEL 2105 - 2135



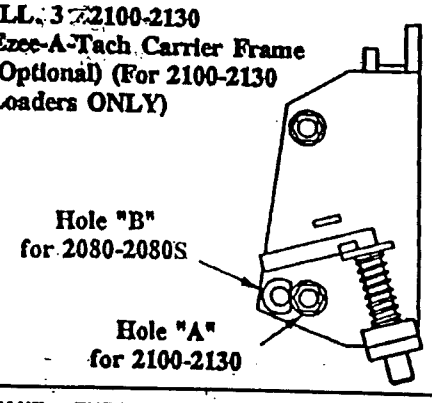
IMPORTANT: BEFORE STARTING TO ASSEMBLE 2105 OR 2135 LOADER, CUT SHIPPING BANDS WHICH SECURE BUCKET CYLINDER AND LINKAGE. BE SURE TO REMOVE WOODEN BLOCK BETWEEN BUCKET CYLINDER AND FRAME.

ILL. 2
MODEL 2100 - 2130

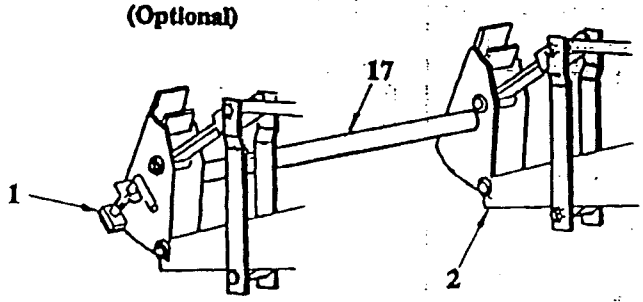


Arrow "G" indicates location of grease fitting.

ILL. 3 2100-2130 Ezee-A-Tach Carrier Frame (Optional) (For 2100-2130 Loaders ONLY)



ILL. 4 Ezee-A-Tach Carrier Frame (Optional)



NOTE: Carrier for Model 2105-2135 Loaders shown

IMPORTANT: THE EZEE-A-TACH CARRIER FRAME FOR 2105 OR 2135 LOADER WILL NOT WORK IF PINNED ON TO A 2100 OR 2130 LOADER. SEVERE DAMAGE WILL OCCUR TO BUCKET CYLINDER IF WRONG CARRIER IS INSTALLED.

ASSEMBLY INSTRUCTIONS

1. Attach mount brackets to tractor. See instructions in mount bolt package.

2. IMPORTANT: See ILL. 1. Model 2105-2135 ONLY. Break shipping bands and remove wooden block used to secure bucket cylinder and linkage for shipping. Next fasten pivot arms, arrow 13 to pivot tube, arrow 17, at bottom of both front H-frame arms. Attach each set of pivot arms to pivot tube with one (1) 1" x 6" hex. bolts c/w locknut.

3. Install grease fittings in main frame, self-levelling linkage (2105-2135 only), and cylinders. Arrow "G" in ILL. 1 and 2 show location of grease fittings.

4. Position yoke assembly, arrow 1, so that yoke is positioned squarely on ground as shown in ILL. 1 and 2.

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

CAUTION: 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 2105-2135 - Attach the main frame, arrow 2, to the middle pin, arrow 3, on each side of yoke assembly. Secure each pin with one (1) 5/16" x 1-3/4" cotter pin. See ILL. 1.

   b) Model 2105-2135 - Attach self-levelling link, arrow 6, to top pin, arrow 7, on each side of yoke assembly. Secure each pin with one (1) 1/4" x 1-1/2" cotter pin. See ILL. 1.

   c) Model 2100-2130 - Attach the main frame, arrow 2, to the top pin, arrow 3, on each side of yoke assembly. Secure each pin with one (1) 5/16" x 1-3/4" cotter pin. See ILL. 2.

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 or an Ezee-A-Tach Frame (see ILL. 4, arrow 17) 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. When attaching Ezee-a-Tach carrier frame on Model 2100 and 2130 Loaders, secure the main frame to bottom hole "A" as shown in ILL. 3. Do not use hole "B", this hole is for the Model 2080 Series and 2090 Series Loaders. Secure each pin with (1) one 1/4" x 1-1/2" cotter pin.

   NOTE: The Ezee-A-Tach carrier has a two position width. Model 2100-2105-2130-2135 loaders require the wide width. If carrier is received in the narrow position, adjust carrier to wide position by removing bolt from telescopic tube and move out to the next hole position. After adjustment is complete, install bolt in telescopic tube and secure with nut.

   For Model 2105 and 2135 Loaders- Attach Ezee-A-Tach carrier to main frame using 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 17 to see 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) Model 2105-2135 - See ILL. 1. Attach cross tube end of push arm assembly, arrow 5, to top pin on each side of bucket, arrow 4. Secure each pin with one 1/4" x 1-1/2" cotter pin.
   b) Model 2100-2130 - See ILL. 2. Attach two (2) bucket cylinders, arrow 5, with barrel end attached to the cylinder lugs, arrow 6, 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. Position shaft end cross tube so grease fitting is facing up. Secure each pin with one 1/4" x 1-1/2" cotter pin. Identify bucket cylinder from Table I below.

8. a) Model 2105-2135 - See ILL. 1. 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 5/16" x 1-3/4" cotter pin. Identify bucket cylinder from Table I below.
   b) Model 2100-2130 - See ILL. 2. 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 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 5/16" x 1-3/4" cotter pin. Identify bucket cylinder from Table I below.

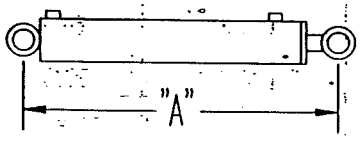
CAUTION: WHEN ASSEMBLING THE LOADER, BE SURE ALL BOLTS AND HYDRAULIC FITTINGS ARE TIGHT, AND ALL COTTER PINS ARE INSTALLED IN THEIR PINS AND SLOTTED NUTS. LOOSE BOLTS, HYDRAULIC FITTINGS AND MISSING COTTER PINS MAY RESULT IN SERIOUS DAMAGE TO THE LOADER AND TRACTOR, AND POSSIBLE PERSONAL INJURY.

9. BUCKET LEVEL INDICATOR INSTALLATION:

   a) Model 2105-2135 - See ILL. 1. 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 inside 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 17.
   b) Model 2100-2130 - See ILL. 2. 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 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 17.

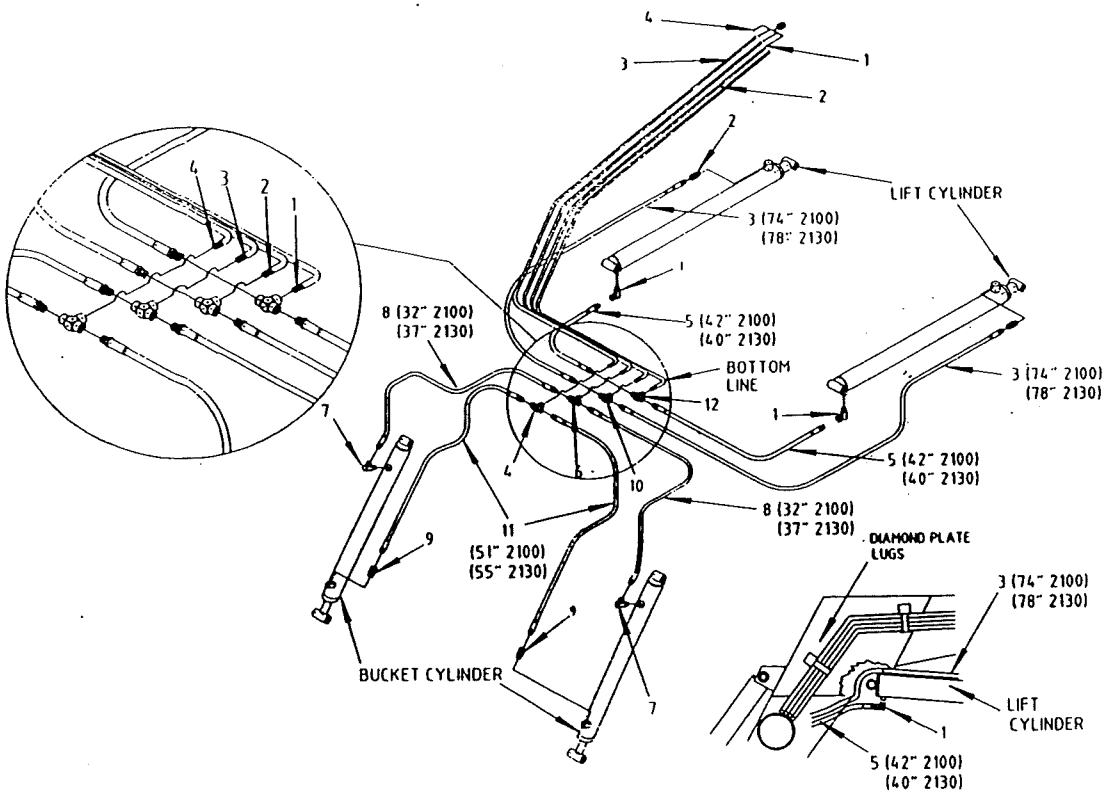
Table 1 - CYLINDER IDENTIFICATION CHART

MODEL	CYLINDER IDENTIFICATION	PISTON DIAMETER	STROKE	C.C. CLOSED DIMENSIONS "A"	PIN DIA.
2100-2130	BUCKET	3"	18"	26-1/2"	1"
2105	BUCKET	3"	20-3/4"	40-5/8"	1"
2135	BUCKET	3"	20-3/4"	53-5/8"	1"
2100-2105	LIFT (std)	3"	27"	35-7/8"	1-1/4"
2100-2105	LIFT (optional)	3-1/2"	27"	35-7/8"	1-1/4"
2130-2135	LIFT (std)	3"	32"	40-7/8"	1-1/4"
2130-2135	LIFT (optional)	3-1/2"	32"	40-7/8"	1-1/4"



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 LEAD WILL STOP.

ILL. 5



10. MODEL 2100 - 2130
CONNECTING HYDRAULIC SYSTEM - 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.***

a) Install one (1) 3/8" x 90 degree swivel street elbow, arrow 1, in each barrel end port of each lift and bucket cylinder. Elbow should face forward after elbow is tightened.

b) Install one (1) 3/8" male-female swivel, arrow 2, to the shaft end port of each lift cylinder.

c) Model 2100 - Connect one (1) 3/8" x 74" hydraulic hose, arrow 3, to 3/8" tee, arrow 10, on the #2 oil line at the center of the main frame. Then fasten the opposite end to the 3/8" male female swivel, arrow 2, on the lift cylinders. Thread hose over lift cylinder pin and between diamond plate lugs of main frame.

Model 2130 - Connect one (1) 3/8" x 78" hydraulic hose, arrow 3, to 3/8" tee, arrow 10, on the #2 oil line at the center of the main frame. Then fasten the opposite end to the 3/8" male-female swivel, arrow 2, on the lift cylinders. Thread hose over lift cylinder pin and between diamond plate lugs of main frame.

d) Model 2100 - Connect one (1) 3/8" x 42" hydraulic hose, arrow 5, to the 3/8" tee, arrow 12, on the #1 oil line at the center 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.

Model 2130 - Connect one (1) 3/8" x 40" hydraulic hose, arrow 5, to the 3/8" tee, arrow 12, on the #1 oil line at the center 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.

CONNECTING HYDRAULIC SYSTEM CONTINUED:

e) Model 2100 - Install one (1) 3/8" x 90 degree swivel street elbow, arrow 7, to the barrel end port of each bucket cylinder. Then connect one (1) 3/8" x 32" hydraulic hose, arrow 8, to 3/8" tee, arrow 6, 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" x 90 degree swivel street elbow, arrow 7.

Model 2130 - Install one (1) 3/8" x 90 degree swivel street elbow, arrow 7, to the barrel end port of each bucket cylinder. Then connect one (1) 3/8" x 37" hydraulic hose, arrow 8, to 3/8" tee, arrow 6, 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" x 90 degrees swivel street elbow, arrow 7.

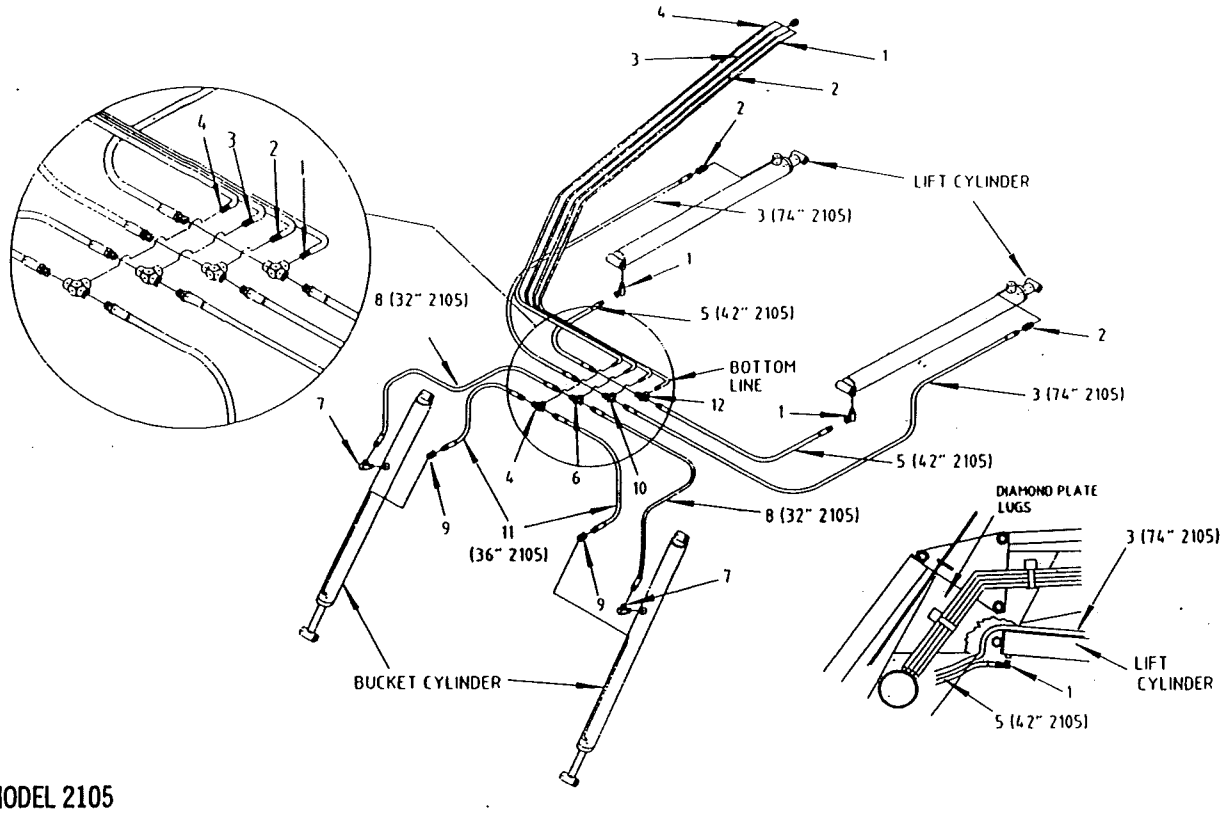
f) Model 2100 - Install one (1) 3/8" female-female swivel, arrow 9, to the shaft end port of each bucket cylinder. Then connect one (1) 3/8" x 36" hydraulic hose, arrow 11, to 3/8" tee, arrow 4, mounted on the #4 oil line at the centre of the main frame. Then fasten the opposite end of each hose to the 3/8" female-female swivel adapter, arrow 9.

Model 2130 - 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 40" hydraulic hose, arrow 11, to 3/8" tee, arrow 4, mounted on the #4 oil line at the centre of the main frame. Then fasten the opposite end of each hose to the 3/8" female-female swivel adapter, arrow 9.

g) Connect four (4) long hoses to the four (4) oil lines at the rear of the loader. Install four (4) male couplers to the other end of the same hoses; and connect these hoses to the tractors' hydraulic system.

h) Pump hydraulic fluid into the bucket and lift cylinders. Insure all hydraulic cylinders are completely filled with hydraulic fluid before operating the loader.

ILL. 6 (2105)



11. MODEL 2105
CONNECTING HYDRAULIC SYSTEM - 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.***

a) Install one (1) 3/8" x 90 degree swivel street elbow, arrow 1, in each barrel end port of each lift and bucket cylinder. Elbow should face forward after elbow is tightened.

b) Install one (1) 3/8" male-female swivel, arrow 2, to the shaft end port of each lift cylinder.

c) Model 2105 - Connect one (1) 3/8" x 74" hydraulic hose, arrow 3, to 3/8" tee, arrow 10, on the #2 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 over lift cylinder pin and between diamond plate lugs of main frame.

d) Model 2105 - Connect one (1) 3/8" x 42" hydraulic hose, arrow 5, to the 3/8" tee, arrow 12, on the #1 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.

CONNECTING HYDRAULIC SYSTEM CONTINUED:

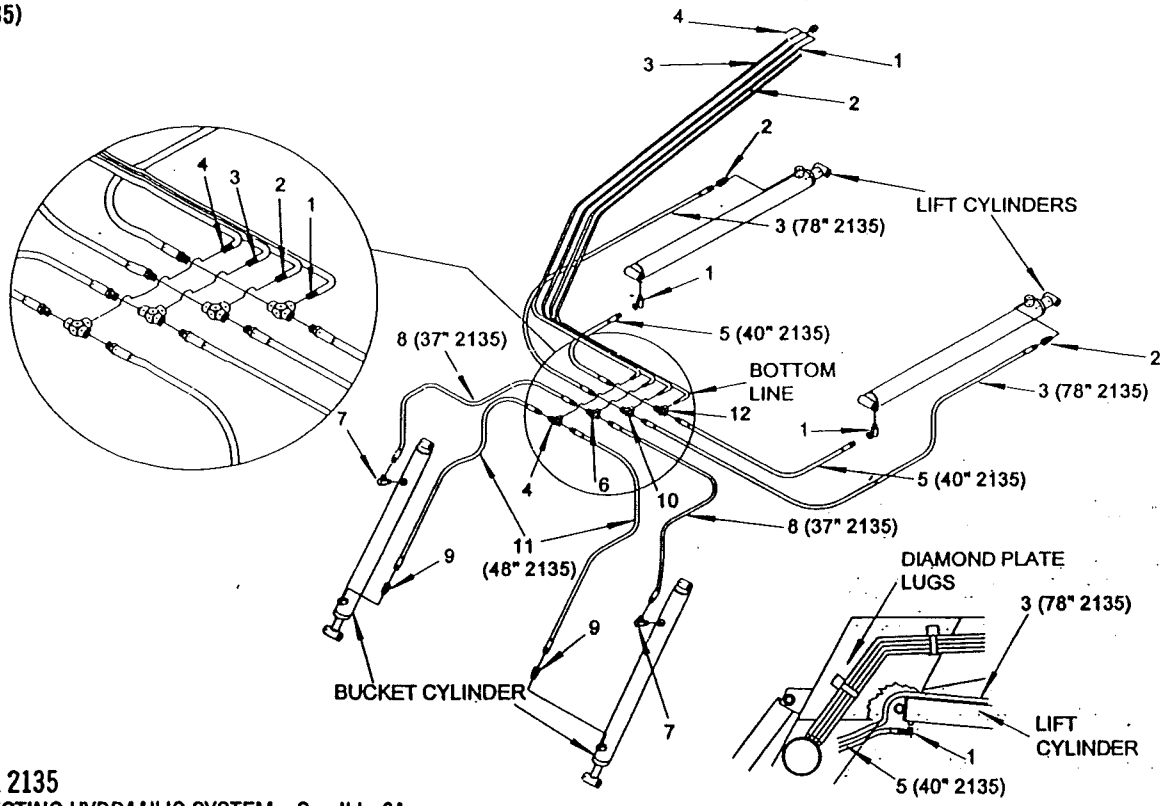
e) Model 2105 - Install one (1) 3/8" x 90 degree swivel street elbow, arrow 7, to the barrel end port of each bucket cylinder. Then connect one (1) 3/8" x 32" hydraulic hose, arrow 8, to 3/8" tee, arrow 6, mounted on the #3 oil line at the centre of the main frame. Then fasten the opposite end of each hose to each 3/8" x 90 degree swivel street elbow, arrow 7.

f) Model 2105 - 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 36" hydraulic hose, arrow 11, to 3/8" tee, arrow 4, mounted on the #4 oil line at the centre of the main frame. Then fasten the opposite end of each hose to the 3/8" female-female swivel adapter, arrow 9.

g) Connect four (4) long hoses to the four (4) oil lines at the rear of the loader. Install four (4) male couplers to the other end of the same hoses, and connect these hoses to the tractors' hydraulic system.

h) Pump hydraulic fluid into the bucket and lift cylinders. Insure all hydraulic cylinders are completely filled with hydraulic fluid before operating the loader.

ILL. 6A (2135)



11. MODEL 2135
CONNECTING HYDRAULIC SYSTEM - See ILL. 6A

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.***

a) Install one (1) 3/8" x 90 degree swivel street elbow, arrow 1, in each barrel end port of each lift and bucket cylinder. Elbow should face forward after elbow is tightened.

b) Install one (1) 3/8" male-female swivel, arrow 2, to the shaft end port of each lift cylinder.

c) Model 2135 - Connect one (1) 3/8" x 78" hydraulic hose, arrow 3, to 3/8" tee, arrow 10, on the #2 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 over lift cylinder pin and between diamond plate lugs of main frame.

d) Model 2135 - Connect one (1) 3/8" x 40" hydraulic hose, arrow 5, to the 3/8" tee, arrow 12, on the #1 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 2135 - Install one (1) 3/8" x 90 degree swivel street elbow, arrow 7, to the barrel end port of each bucket cylinder. Then connect one (1) 3/8" x 37" hydraulic hose, arrow 8, to 3/8" tee, arrow 6, 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" x 90 degree swivel street elbow, arrow 7.

f) Model 2135 - 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 3/8" tee, arrow 4, mounted on the #4 oil line at the centre of the main frame. Then fasten the opposite end of each hose to the 3/8" female-female swivel adapter, arrow 9.

g) Connect four (4) long hoses to the four (4) oil lines at the rear of the loader. Install four (4) male couplers to the other end of the same hoses, and connect these hoses to the tractors' hydraulic system.

h) Pump hydraulic fluid into the bucket and lift cylinders. Insure all hydraulic cylinders are completely filled with hydraulic fluid before operating the loader.

ASSEMBLY INSTRUCTIONS CONTINUED:

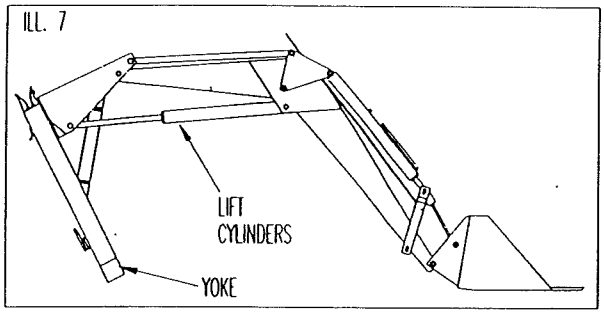
IMPORTANT: WHEN APPLYING HYDRAULIC PRESSURE FOR FIRST TIME, A SMALL AMOUNT OF OIL MAY LEAK FROM BETWEEN HEAD PLATE AND BARREL. THIS IS ASSEMBLY OIL TRAPPED UNDER HEAD PLATE O-RING. AFTER THIS OIL IS SQUEEZED OUT, THE LEAK WILL STOP.

i) To mount the loader onto the tractor, raise the rear of the yoke by extending the lift cylinders. Drive the tractor with the Ezee-On mounts installed, between the uprights of the yoke so the rear yoke mounting tubes slide into the mounting channel and lock behind the channel latches. Raise the yoke to horizontal position by contracting the lift cylinders. Drive the tractor ahead until the front yoke mounting tubes slide into the mounting channels and lock behind the channel latches (see mounting instructions on page 12).

CAUTION: TO AVOID THE LOADER FREE-FALLING OR MOVING SUDDENLY, INSURE THE HYDRAULIC CYLINDERS ARE COMPLETELY FILLED WITH HYDRAULIC FLUID.

i) 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.

ILL. 7



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.

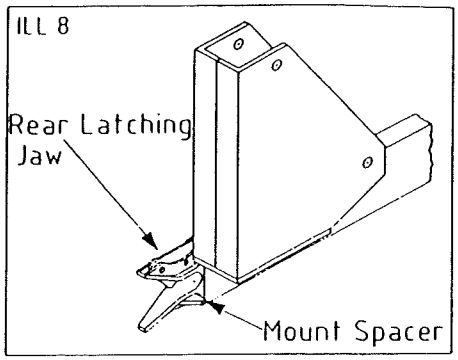
CAUTION: DO NOT DISASSEMBLE OR LOOSEN HYDRAULIC COMPONENTS WHEN THERE IS PRESSURE WITHIN THOSE COMPONENTS. HYDRAULIC COMPONENTS UNDER PRESSURE MAY CAUSE PARTS AND FLUID TO FLY OUT AT A HIGH VELOCITY, WHICH COULD CAUSE SERIOUS INJURY. ALWAYS RELIEVE THE PRESSURE IN THE HYDRAULIC SYSTEM BEFORE REPAIRING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

12. 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 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 (2) 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.

CONNECTING HYDRAULIC SYSTEM CONTINUED:

7. 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.



LUBRICATION

1. Grease the cylinders and main frame pivot points pins (and self-levelling pivot points on Model 2105 and 2135 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 in not administered at once.

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

MAINTENANCE & STORAGE

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

CAUTION: ESCAPING HYDRAULIC FLUID UNDER PRESSURE CAN CAUSE PERSONAL INJURY BY PENETRATING THE SKIN. ALWAYS RELIEVE SYSTEM PRESSURE BEFORE MAKING ADJUSTMENTS TO THE HYDRAULIC SYSTEM.

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.

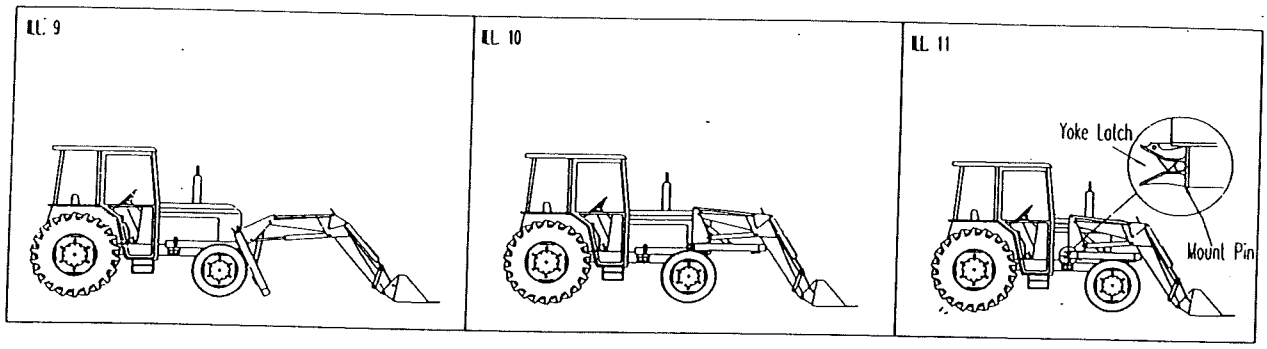
3. Keep the mounting bolts tight and be sure all loader pins are secured with cotter pins.

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

4. Keep all safety decals clean and in good condition to provide a constant reminder of safe operating procedures.

Replace any destroyed, missing, or illegible decals.



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 on page 6, 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: 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 tractors' hydraulic system.

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

   STEP 4: 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. See ILL. 11.

2. To take the loader off the tractor, lift jaw 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 MAY 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.

6. Add the necessary wheel ballast on the rear weights to increase the tractors' stability.

7. Move the tractor wheels to their widest possible setting to increase the tractors' stability.

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

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 IN A RAISED POSITION WILL DECREASE TRACTOR STABILITY RESULTING IN POSSIBLE TRACTOR UPSET, SERIOUS DAMAGE TO THE LOADER AND TRACTOR, AND SERIOUS INJURY OR DEATH TO YOU OR THOSE NEARBY.

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.

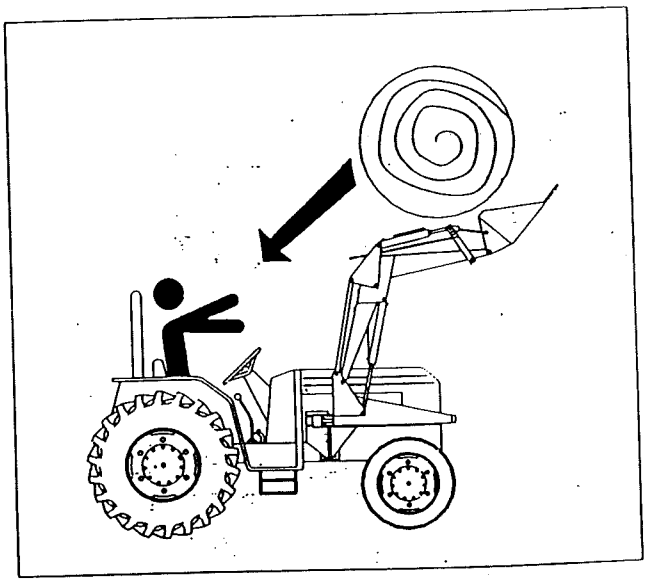
CAUTION: NEVER STAND UNDER ANY PART OF THE LOADER OR ATTACHMENT WHEN THE LOADER ARMS ARE IN A RAISED POSITION. IF ANY COMPONENT OF THE HYDRAULIC SYSTEM FAILED, OR IF THE HYDRAULIC LEVER WAS Accidentally OPERATED, OR IF ANY OTHER COMPONENT FAILED, THE LOADER OR ATTACHMENT WILL DROP CAUSING SERIOUS INJURY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

6. **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 loader 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.

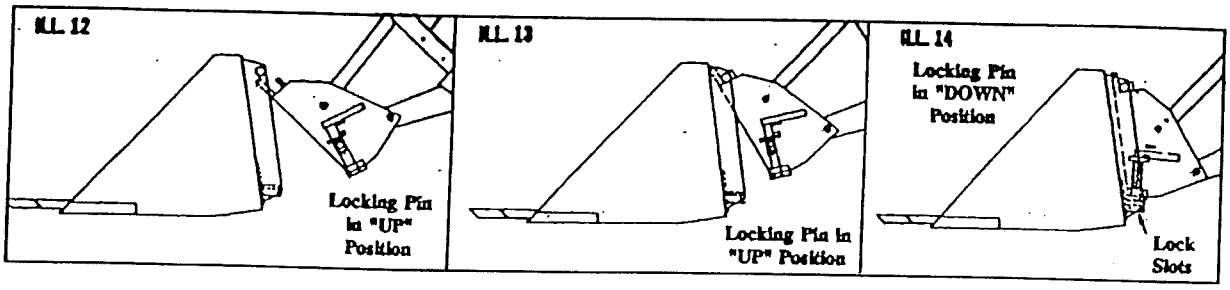
7. Do not attempt to lift a load at the corner of the bucket. Lifting a load at the corner of the bucket could twist and distort the bucket. Always distribute the weight evenly from the centre of the bucket.

WARNING: 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 ATTACHMENTS AS A MAN-LIFT. IF THE HYDRAULIC SYSTEM FAILED OR IF THE HYDRAULIC LEVER WAS ACCIDENTAL OPERATED OR IF ANY OTHER COMPONENT FAILED THE LOADER OR ATTACHMENT COULD DROP RESULTING IN SERIOUS INJURY OR DEATH.

OPERATION CONTINUED:



8. 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: With the spring-loaded locking pins in the "UP" position and carrier tipped forward, drive the carrier between the brackets of the attachment. See ILL. 12.

STEP 2: 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. See ILL. 13.

STEP 3: 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. See ILL. 14.

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.

ADJUSTMENTS

1. BUCKET LEVEL INDICATOR - See ILL. 15.

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:

a) With loader installed on tractor, position bucket level on ground.

b) Loosen clamp, arrow 2, which fastens level indicator, arrow 3, to rod.

c) Adjust level indicator, arrow 3, so top end is flush with top side of rod support, arrow 4.

NOTE: Model 2100 and 2130 loader is shown in ILL. 15. The level indicator for Model 2105 and 2135 loaders are adjusted using the same procedure.