

Ezee-On

MODEL 2040

FRONT-END LOADER

**OWNERS' MANUAL
and
PARTS LIST**

Manufactured
by

Ezee-On Mfg. Ltd.

Vegreville, Alberta
Canada

Printed in 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 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.
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.

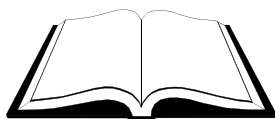
INTRODUCTION

THANK YOU for 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.

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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.

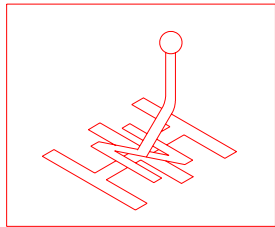


ASSEMBLY SAFETY

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.

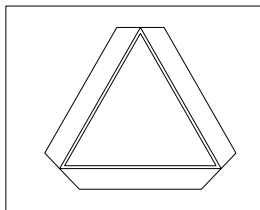
MAINTENANCE SAFETY

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.



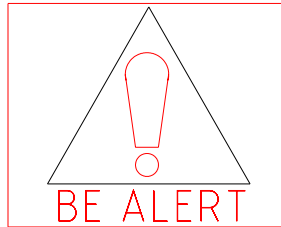
2. Keep the loader arms in a low position during transport at all times, especially when carrying a load. Carrying the loader in a raised position will decrease tractor stability resulting in possible tractor upset causing serious damage to the loader and tractor, and serious injury or death to you or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

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 raised 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.

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!!!**

ASSEMBLY INSTRUCTIONS

1. Attach mount brackets to tractor, and connect loader hydraulic valve to tractors hydraulic system. See instructions in hose kit for control valve.
2. Install grease fittings in main frame and cylinders.
3. Position yoke assembly, arrow 1, so that yoke is positioned squarely on ground as shown in ILL.1.

NOTE: *To assemble the yoke, main frame and bucket, it maybe 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.

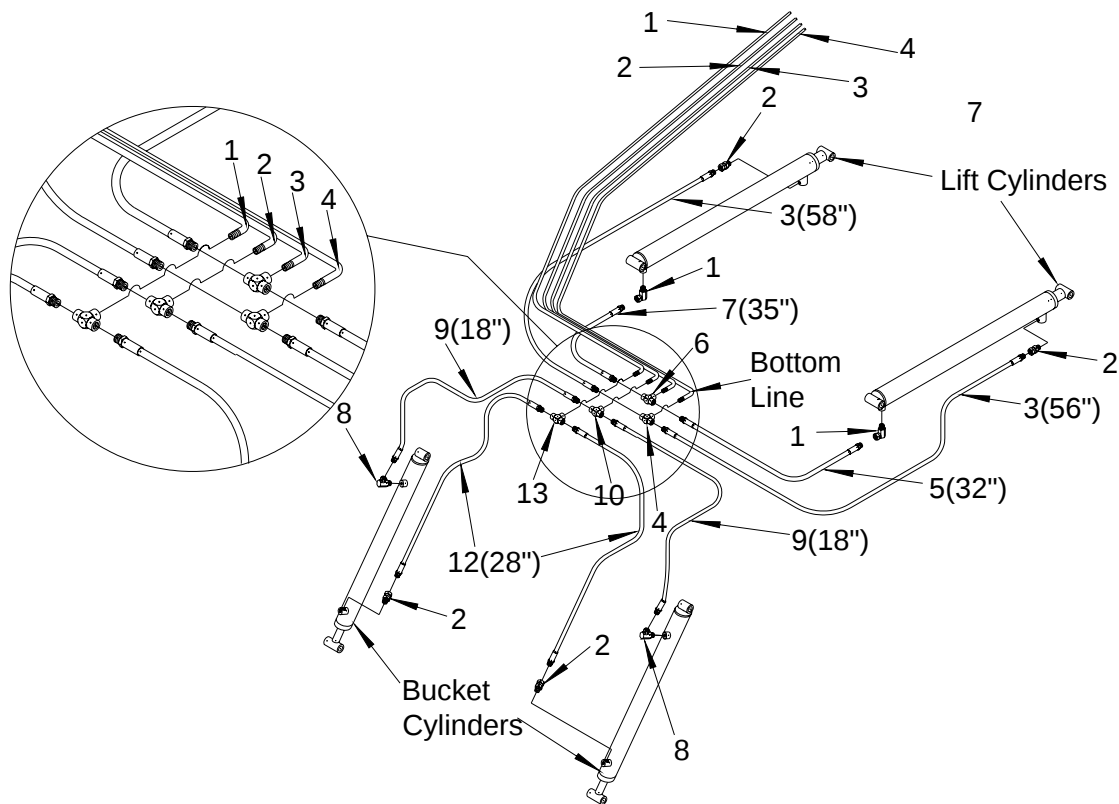


CAUTION: WHEN ASSEMBLING LOADER USE HOIST, OR USE ADEQUATE MANPOWER TO LIFT HEAVY COMPONENTS INTO PLACE. USE ADEQUATE JACKS OR SUPPORT MATERIAL.

4. See ILL.1. Attach the main frame, arrow 2, to the top pin, arrow 3, on yoke assembly, arrow 1. Secure each pin with one (1) 3/16" x 1-1/4" cotter pin.
5. See ILL.1. Attach the bucket, arrow 4, to the main frame, arrow 2, using the bottom bucket attaching pins. Secure each pin with one (1) 3/16" x 1-1/4" cotter pin.
6. See ILL.1. Attach bucket cylinders, arrow 5, with the tube end attached to the cylinder lug (top side of front arms) on the main frame, and the shaft end attached 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) 3/16" x 1-1/4" cotter pin.
7. See ILL.1. Attach lift cylinders, arrow 6, with the tube end attached to the cylinder lug, arrow 7, on the main frame, arrow 2. Attach the cylinder lug, arrow 7, on the main frame, arrow 2. Attach the shaft end to the cylinder lug, arrow 8, on the yoke assembly, arrow 1. 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) 3/16" x 1-1/4" cotter pin.



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



8. CONNECTING HYDRAULIC SYSTEM - SEE HYDRAULIC SYSTEM ILLUSTRATION 2

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 UNTIL ALL FITTINGS ARE INSTALLED.

- a) Install one (1) 3/8" x 90 degree swivel street elbow, arrow 1, to the barrel end port of each lift cylinder.
- b) Install one (1) 3/8" female-female swivel, arrow 2, to the shaft end port of each lift cylinder.
- c) Connect one (1) 1/4" x 56" hydraulic hose, arrow 3, to the 3/8" tee, arrow 4, on #4, 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.

Connect one (1) 1/4" x 58" hydraulic hose, arrow 3, to the 3/8" tee, arrow 4, on #4, 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.

- d) Connect one (1) 1/4" x 32" hydraulic hose, arrow 5, to the 3/8" tee, arrow 6, on the #3 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 R.H. lift cylinders.

Connect one (1) 1/4" x 35" hydraulic hose, arrow 7, to the 3/8" tee, arrow 6, on the #3 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 L.H. lift cylinders.

- e) Install one (1) 3/8" x 90 degree swivel street elbow, arrow 8, to the barrel end port of each bucket cylinder. Then connect one (1) 1/4" x 18" hydraulic hose, arrow 9, to 3/8" tee, arrow 10, mounted on the #2 Oil Line at the center of the main frame. Then fasten the opposite end of each hose to each 3/8" x 90 degree swivel street elbow, arrow 8, on bucket cylinders.

CONNECTING HYDRAULIC SYSTEM CONTINUED:

- f) Install one (1) 3/8" male-female swivel 90 degree elbow, arrow 2, to the shaft end port of each bucket cylinder. Then connect one (1) 1/4" x 28" hydraulic hose, arrow 12, to 3/8" tee, arrow 13, mounted on the #1 Oil Line at the center of the main frame. Then fasten the opposite end of each hose to the 3/8" male-female swivel 90 degree elbow, arrow 2.
- g) Connect four (4) long hoses to the four lines at the rear of the main frame. Install four (4) male tips to the 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.

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.

- i) Extend the lift cylinders. This will raise the loader into the mounting position, as shown in Detail "B". 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 THE 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.

- j) To mount the loader on the tractor, raise the rear of the yoke by extending the lift cylinders. Drive the tractor with the mounts installed, between the uprights of the yoke assembly. The rear yoke mounting tubes are to slide into the mount bracket channels and lock behind the channel latches, see ILL.4. By operating the lift cylinders raise the yoke to the horizontal position by contracting the lift cylinders. Drive the tractor ahead until the front yoke mounting tubes slide into the channels and lock behind the channel latches. (See Mounting Instructions on Page 12).

OPERATION

1. LOADER MOUNTING INSTRUCTIONS

TO MOUNT, THE LOADER MUST BE SITTING ON THE GROUND IN THE POSITION SHOWN ABOVE IN ILL.3.

If the loader is sitting flat on ground, as shown in ILL.1, it can be raised into the position shown in ILL.3 by attaching the hydraulic lines to the tractor hydraulic system and extending the lift cylinders.

STEP 1 Drive the tractor between the uprights of the yoke assembly. The rear yoke mounting tubes are to slide into the mount bracket channels and lock behind the channel latches, see ILL.3.

STEP 2 Attach hydraulic hoses to the tractor hydraulic system.

STEP 3 Using the lift cylinders pivot the yoke assembly into a horizontal position, see ILL.4.

STEP 4 Drive the tractor into the loader so that the front yoke mounting tubes slide into the mount bracket channels and lock into position. The loader is securely mounted on the tractor when the channel latches are down in front of the front yoke mounting tubes. See ILL.5.

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

2. IMPORTANT: WHEN TRANSPORTING THE LOADER, ALWAYS ROLL THE BUCKET OR OTHER ATTACHMENTS 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.

TRANSPORTING THE LOADER WITH THE BUCKET (ON 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.

OPERATION CONTINUED:

3. **IMPORTANT:** WHEN THE LOADER IS MOUNTED ON A TRACTOR EXCEEDING 30 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: 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.



CAUTION: MOVE AND TURN 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.

4. **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.

5. **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 CENTER 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 PORTION OF THE LOADER OR TRACTOR. THE PERSON RIDING COULD FALL AND BE SERIOUSLY INJURED.



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.

OPERATION CONTINUED:



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.

MAINTENANCE & 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: ESCAPING HYDRAULIC FLUID UNDER PRESSURE CAN CAUSE PERSONAL INJURY BY PENETRATING THE SKIN. ALWAYS RELIEVE THE SYSTEMS' PRESSURE BEFORE MAKING ADJUSTMENTS IN 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 bracket 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 STUCK 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 TRACTOR 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 when necessary.



CAUTION: ALWAYS RELIEVE THE PRESSURE IN HYDRAULIC SYSTEM BEFORE MAKING ANY ADJUSTMENTS OR WHEN PARKING THE LOADER. HYDRAULIC FLUID ESCAPING UNDER 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.

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PAINT & DECALS

PART NO.	DESCRIPTION	QTY. REQ'D
L010	Ezee-On Decals	3
L014	Caution Decal	1
L001	Ezee-On Yellow Paint (1 Quart Can)	*
L002	Ezee-On Yellow Paint (1/2 Pint Can)	*
L015	Flat Black Paint (1 Quart Can)	*
L016	Flat Black Paint (1/2 Pint Can)	*

* As Required

H-FRAME, YOKE & BUCKET

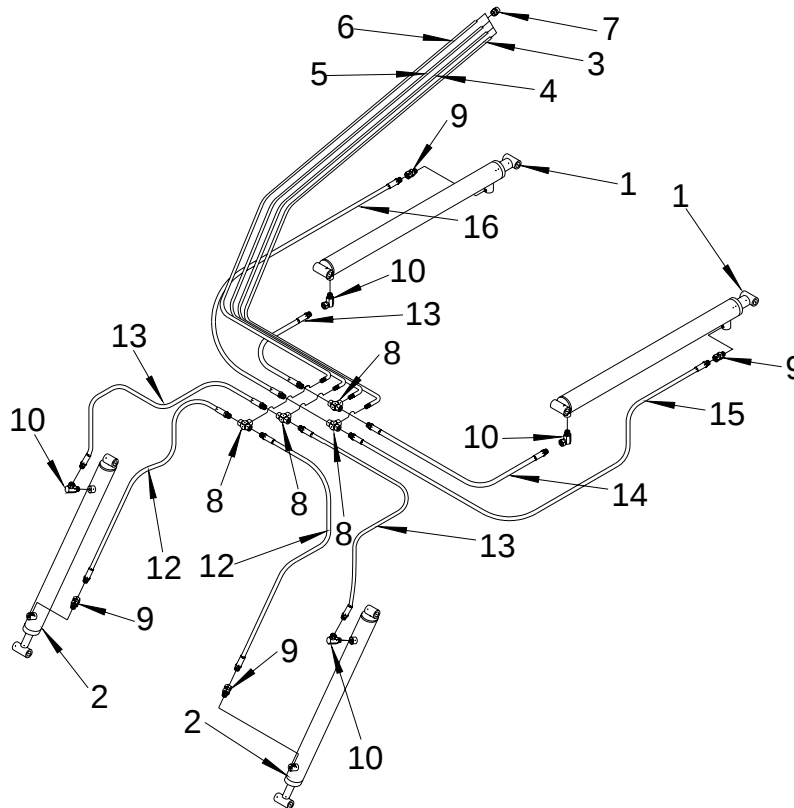
REF. NO.	PART NO.	DESCRIPTION	QTY REQ'D
1	LB460	2040 Yoke Assembly, Narrow Yoke c/w Pins	*
	LB450	2040 Yoke Assembly, Wide Yoke c/w Pins	*
	LB470	2040 Yoke Assembly, Extra Wide Yoke c/w Pins	*
	LB465	2040 Yoke Assembly, Wide-A Yoke c/w Pins (Yanmar)	*
2	LB490	2040 Main Frame Assembly c/w Pins	*
3	LB365	48" Bucket Assembly c/w 4 Pins	*
	LB375	54" Bucket Assembly c/w 4 Pins	*
	LB380	60" Bucket Assembly c/w 4 Pins	*
Back of Bucket	L350	Bucket Attaching Lug (Weld-On)	4
4	L348	48" Bucket Blade (Weld-On)	*
	L358	54" Bucket Blade (Weld-On)	*
	L363	60" Bucket Blade (Weld-On)	*
5	L667	3/4" x 3-11/16" Pin	8
6	L643	3/4" x 2-13/16" Pin	2
7	L665	3/4" x 2-9/16" Pin	2
8		3/16" x 1-1/4" Cotter Pin	12
Not Shown	10GN1	1/4" - 28 Grease Fitting	8

* As Required

HYDRAULIC SYSTEM
(FOR LOADERS WITH S/N 46846 AND PRIOR)

REF. NO.	PART NO.	DESCRIPTION	QTY REQ'D
1	163	Lift Cylinder - See Cylinder Parts List Instructions on Page 17	*
	165	Lift Cylinder - See Cylinder Parts List Instructions on Page 17	*
2	244	Bucket Cylinder - See Cylinder Parts List Instructions on Page 17	2
3	L485	Bottom 1 Hydraulic Oil Line	1
4	L486	Bottom 2 Hydraulic Oil Line	1
5	L487	Bottom 3 Hydraulic Oil Line	1
6	L488	Bottom 4 Hydraulic Oil Line	1
7	DL5280	3/8" Connector Union	4
8	DL5282	3/8" x 3/8" x 3/8" Tee	4
9	DL29	3/8" Female-Female Swivel	2
10	DL9769	3/8" x 90 Degree Swivel Street Elbow	4
11	DL5284	3/8" x 90 Degree Swivel Elbow	2
12	L2928	1/4" x 18" Hydraulic Hose - w/3/8" Ends	2
13	L2929	1/4" x 20" Hydraulic Hose - w/3/8" Ends	2
14	L3017	1/4" x 32" Hydraulic Hose - w/3/8" Ends	1
15	L3019	1/4" x 35" Hydraulic Hose - w/3/8" Ends	1
16	L3020	1/4" x 38" Hydraulic Hose - w/3/8" Ends	1
17	L3021	1/4" x 40" Hydraulic Hose - w/3/8" Ends	1

* As Required



**HYDRAULIC SYSTEM (w/90 DEGREE PORT CYLINDER)
(FOR LOADERS WITH S/N 46847 AND AFTER)**

REF. NO.	PART NO.	DESCRIPTION	QTY REQ'D
1		Lift Cylinder - See Cylinder Parts List Instructions on Page 17	*
		Lift Cylinder - See Cylinder Parts List Instructions on Page 17	*
2		Bucket Cylinder - See Cylinder Parts List Instructions on Page 17	2
3	L485	Bottom 1 Hydraulic Oil Line	1
4	L486	Bottom 2 Hydraulic Oil Line	1
5	L487	Bottom 3 Hydraulic Oil Line	1
6	L488	Bottom 4 Hydraulic Oil Line	1
7	DL5280	3/8" Connector Union	4
8	DL5282	3/8" x 3/8" x 3/8" Tee	4
9	L1619	3/8" male-Female Swivel	4
10	DL9769	3/8" x 90 Degree Swivel Street Elbow	4
11	L2928	1/4" x 18" Hydraulic Hose - w/3/8" Ends	2
12	L3095	1/4" x 28" Hydraulic Hose - w/3/8" Ends	2
13	L3017	1/4" x 32" Hydraulic Hose - w/3/8" Ends	1
14	L3019	1/4" x 35" Hydraulic Hose - w/3/8" Ends	1
15	L4352	1/4" x 56" Hydraulic Hose - w/3/8" Ends	1
16	L4353	1/4" x 58" Hydraulic Hose - w/3/8" Ends	1

EZEE-ON LOADER CYLINDER PARTS LIST

1. Identify your cylinder as to code number of complete cylinder. Use the complete assembly code number, listed below, and match up diameter, stroke, etc.
2. Once the code number has been established then locate cylinder further to book and use correct reference number and column to locate part number.

EZEE-ON CYLINDER PART NUMBER CODE

10 WS 1

Part Number

Part Description, Wiper Seal Kit

10 - Means Fits Many Sizes of Cylinders

17 - Means Used Most Commonly on 1-3/4" Cylinder

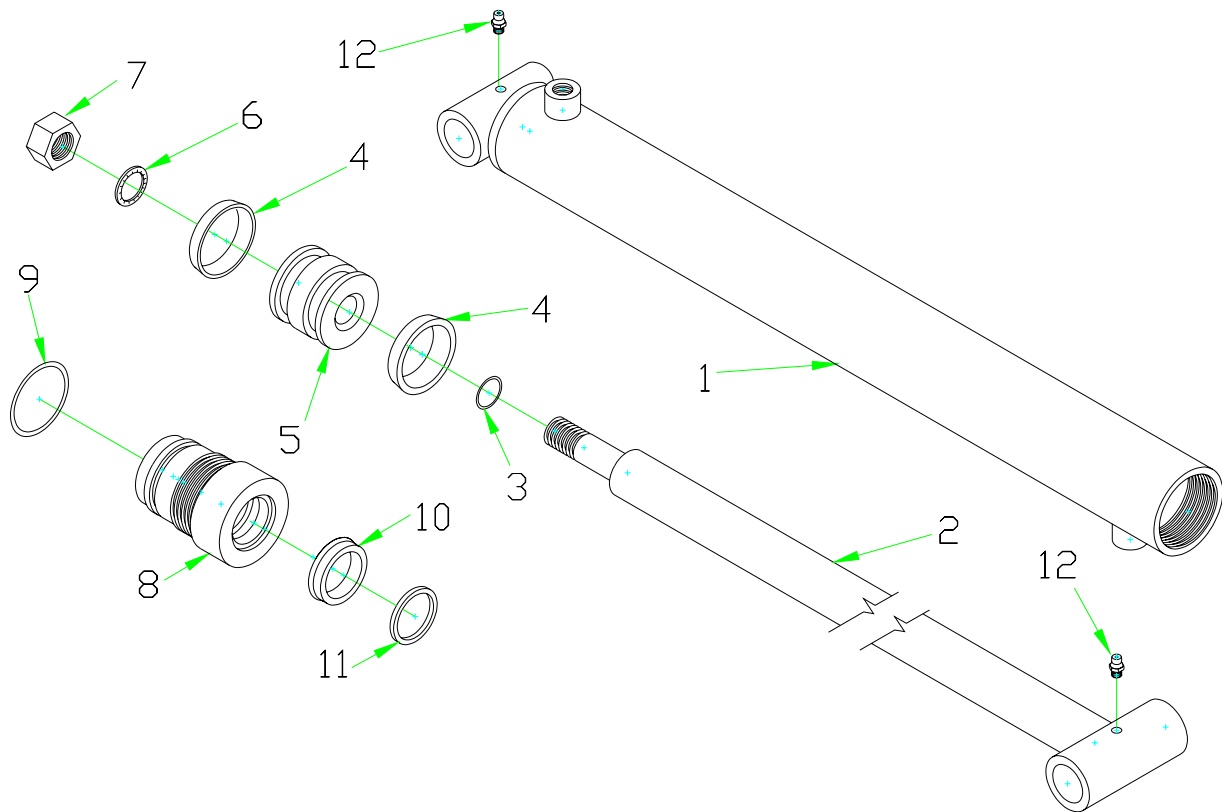
MODEL 2030 CYLINDER SPECIFICATIONS

CODE	DIAMETER	STROKE	C-C LENGTH	SHAFT DIAMETER	TYPE	APPLICATION	PAGE NO.
244	1-3/4"	12	20-1/2"	1-1/4"	N5 (A-Cup)	Bucket	
295	1-3/4"	12	20-1/2"	1"	N5 (U-Cup)	Bucket	
309	1-3/4"	12	20-1/2"	1"	N5 (U-Cup) w/90 Degree Port	Bucket	
163	1-3/4"	21	29-1/2"	1-1/4"	N5 (A-Cup)	Lift	
311	1-3/4"	21	29-1/2"	1-1/4"	N5 (U-Cup) w/90 Degree Port	Lift	
165	2"	21	29-1/2"	1-1/4"	N5 (A-Cup)	Lift	

HYDRAULIC CYLINDER - BUCKET

REF. NO.	PART NO.	DESCRIPTION	CYLINDER CODE
			295
1	17TU1	Tube Assembly - 1-3/4" x 12"	1
2	10SH15	Shaft - 1" x 12"	1
3	100R9	O-Ring - 3/4" I.D. x 7/8" O.D.	1
4	17CU2	U-Cup - 1-3/4" O.D.	2
5	17PB1	1-3/4" O.D. Piston Block	1
6	10SW1	Star Washer - 3/4" I.D.	1
7	10NU1	3/4" N.F. Nut	1
8	17HP3	Head Plate - 1" Shaft	1
9	100R5	O-Ring - 1-1/2" I.D. x 1-3/4" O.D.	1
10	10RS4	Rod Seal - 1" I.D.	1
11	10WS4	Wiper Seal - 1" I.D.	1
12	10GN1	1/4" - 28 Grease Fitting	2

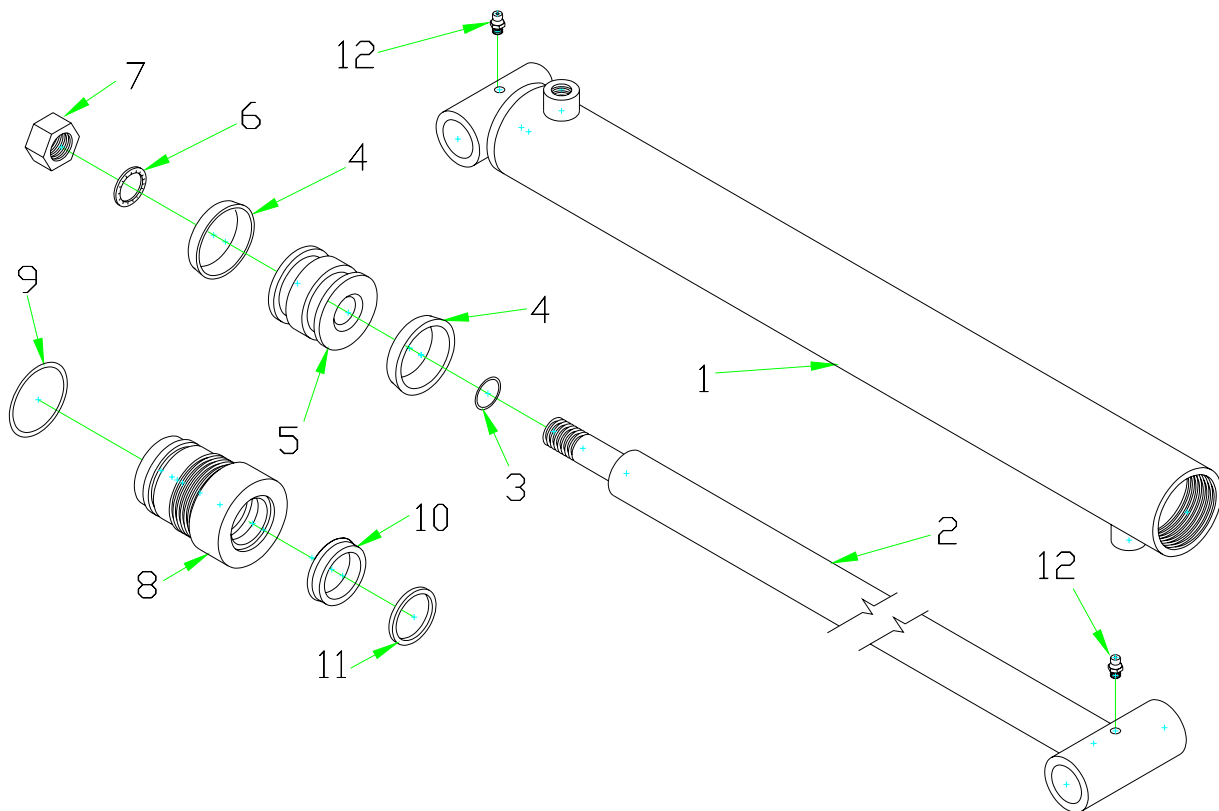
SEAL KIT 1710 U-N5



HYDRAULIC CYLINDER - BUCKET (WITH 90 DEGREE PORT)

REF. NO.	PART NO.	DESCRIPTION	CYLINDER CODE
			309
1	17TU11	Tube Assembly - 1-3/4" x 12"	1
2		Shaft - 1" x 12"	1
3	100R9	O-Ring - 3/4" I.D. x 7/8" O.D.	1
4	17CU2	U-Cup - 1-3/8" I.D. x 1-3/4" O.D. x 5/16" Deep	2
5	17PB1	1-3/4" O.D. Piston Block	1
6	10SW1	Star Washer - 3/4" I.D.	1
7	10NU1	3/4" N.F. Nut	1
8	17HP3	Head Plate - 1-3/4" O.D. x 1" I.D.	1
9	100R5	O-Ring - 1-1/2" I.D. x 1-3/4" O.D.	1
10	10RS4	Rod Seal - 1" I.D.	1
11	10WS4	Wiper Seal - 1" I.D.	1
12	10GN1	1/4" - 28 Grease Fitting	2

SEAL KIT 1710U-N5



HYDRAULIC LIFT CYLINDER

REF. NO.	PART NO.	DESCRIPTION	CYLINDER CODE
			311
1	17TU1	Tube Assembly - 1-3/4" x 21" (w/90 Degree Port)	1
2	10SH31	Shaft - 1-1/4" x 21"	1
3	10OR9	O-Ring - 3/4" I.D. x 7/8" O.D.	1
4	17CU2	U-Cups - 1-3/8" I.D. x 1-3/4" O.D. x 5/16" Deep	2
5	17PB1	1-3/4" O.D. Piston Block	1
6	10SW1	Star Washer - 3/4" I.D.	1
7	10NU1	3/4" N.F. Nut	1
8	20HP8	Head Plate - 1-3/4" O.D. x 1-1/4" I.D.	1
9	10OR4	O-Ring - 1-1/2" I.D. x 1-3/4" O.D.	1
10	10RS5	Rod Seal - 1-1/4" I.D.	1
11	10WS5	Wiper Seal - 1-1/4" I.D.	1
12	10GN1	1/4" - 28 Grease Fitting	2

1712 U-N5

HYDRAULIC CYLINDER

REF. NO.	PART NO.	DESCRIPTION	CYLINDER CODE		
			163	168	244
1	17TU12	Tube Assembly - 1-3/4" x 12" (w/90 Degree Port)	-	-	1
	17TU9	Tube Assembly - 1-3/4" x 21"	1	-	-
	17TU34	Tube Assembly - 2" x 21"	-	1	-
2	10SH31	Shaft - 1-1/4" x 21"	1	1	-
	10SH48	Shaft - 1-1/4" x 12"	1	-	1
3	10OR9	O-Ring - 3/4" I.D. x 7/8" O.D.	1	1	1
4	17FP1	Filler Plate - 1-3/4"	1	-	1
	20FP1	Filler Plate - 2"	-	1	-
5	17CU1	A-Cups - 1-3/4"	2	-	1
	20CU1	A-Cups - 2"	-	2	-
6	17BP1	Back-up Plate - 1-3/4"	1	-	1
	20BP1	Back-up Plate - 2"	-	1	-
7	10SW1	Star washer - 3/4" I.D.	1	1	1
8	10NU1	3/4" N.F. Nut	1	1	1
9	17HP5	Head Plate - 1-3/4" O.D. x 1-1/4" I.D.	1	-	1
	20HP8	Head Plate - 2" O.D. x 1-1/4" I.D.	-	1	-
10	10OR5	O-Ring - 1-1/2" I.D. x 1-3/4" O.D.	1	-	1
	10OR4	O-Ring - 1-3/4" I.D. x 2" O.D.	-	1	-
11	10RS5	Rod Seal - 1-1/4" I.D.	1	1	1
12	10WS5	Wiper Seal - 1-1/4" I.D.	1	1	1
13	10GN1	1/4" - 28" Grease Fitting	2	2	2
14	17FP2	Filler Plate	1	-	1
	20FP2	Filler Plate	-	1	-

SEAL KIT 1712N5 - CYLINDER CODE #163

SEAL KIT 2012N5 - CYLINDER CODE #168

EZEE-ON CYLINDER REPAIR SEAL KIT

CODE 17 = 1-3/4" Bore
 20 = 2" Bore

PART NO 1712N5-----N5 = THREADED HEAD TYPE

12 = 1-1/4" Shaft

CYLINDER SEAL KIT

KIT NO.	CONTENTS		FITS CYLINDER CODE NO.
1710N5-U	2 - 17CU2 1 - 100R9 1 - 100R5 1 - 10RS4 1 - 10WS4	1-3/8" I.D. x 1-3/4" O.D. x 5/16" Deep U-Cup 3/4" I.D. x 7/8" O.D. O-Ring 1-1/2" x 1-3/4" O.D. O-Ring 1" I.D. Rod Seal 1" I.D. Wiper Seal	295, 309
1712N5	2 - 17CU1 1 - 100R9 1 - 100R5 1 - 10RS5 1 - 10WS5	1-3/4" A-Cups 3/4" I.D. x 7/8" O.D. O-Ring 1-1/2" I.D. x 1-3/4" O.D. O-Ring 1-1/4" I.D. Rod Seal 1-1/4" I.D. Wiper Seal	244, 163
1712N5-U	2 - 17CU2 1 - 100R9 1 - 100R5 1 - 10RS5 1 - 10WS5	1-3/8" I.D. x 1-3/4" O.D. x 5/16" Deep U-Cup 3/4" I.D. x 7/8" O.D. O-Ring 1-1/2" I.D. x 1-3/4" O.D. O-Ring 1-1/4" I.D. Rod Seal 1-1/4" I.D. Rod Seal	311
2012N5	2 - 20CU1 1 - 100R9 1 - 100R4 1 - 10RS5 1 - 10WS5	2" A-Cups 3/4" I.D. x 7/8" O.D. O-Ring 1-3/4" I.D. x 2" O.D. O-Ring 1-1/4" I.D. Rod Seal 1-1/4" I.D. Wiper Seal	165