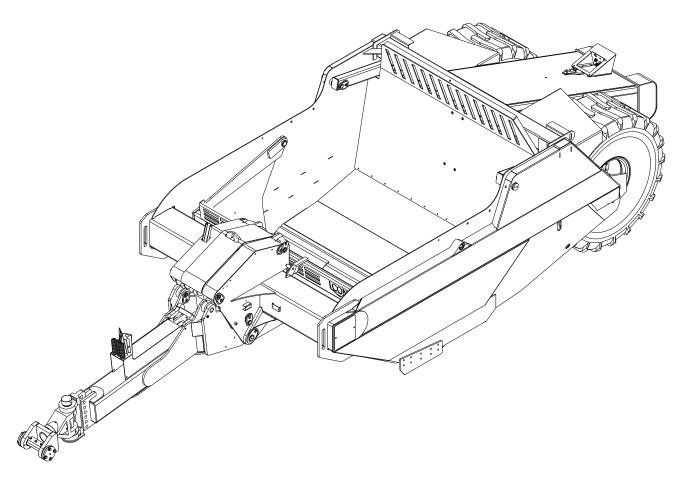


Model 819 Scraper Service and Parts Manual



LANDOLL CORPORATION

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Foreword

Literature Information

This information should be stored in the literature holder located on the machine.

This manual contains safety information, operating instructions, lubrication and maintenance information.

Some of the photographs or illustrations in the publication show details that can differ slightly from your personal machine. Shields and covers may have been removed to allow for illustrations.

Constant improvement and knowledge of product design may cause changes to your personal machine that is not listed in this manual. Read, understand, and keep this manual with the machine to aid in repairs, adjustment, service and parts identification.

Whenever a question arises regarding your machine, or this manual, please contact Product Support for assistance.

Safety

The safety section of this manual lists basic safety precautions. In addition, this section shows the location of safety signs and decals used on this machine.

Read and understand the basic precautions listed in the safety section before operating or performing lubrication, maintenance or repair work on this machine.

NOTE: Before any service or repair work is performed, make certain that all safety stops are in place.

Be certain to remove all safety stops when repairs are complete.

Operation

This operation section is a reference guide for the new operator and a refresher for the experienced operator. Operating techniques shown are basic, skill and technique will increase with knowledge and usage of the machine.

Maintenance

The maintenance section is a guide to machine care. The illustrated step by step procedures covers the most important of the maintenance schedule. Regular routine lubrication is described in less detail.

Maintenance Intervals

Normally, all lubrication should be on a daily basis. However, certain locations only require lubrication on a weekly basis or require a specific quantity. These locations will be marked clearly, showing and describing requirements.

Under extremely severe, dusty/wet/sandy conditions, or if the haul is long and rough, more frequent lubrication and inspection of highly stressed areas is recommended.

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Safety Information

Introduction

This manual is compiled as a guide for owners and operators of the Scraper. Read it carefully so as to be able to follow the suggestions made. Please take time to understand the proper maintenance schedule and SAFE operation of your equipment.

In the event that a new and inexperienced operator is placed in charge of running the equipment, they should read and understand, that part of the manual for proper maintenance and SAFE operation, and to be trained in regard by an experienced operator.

Owner Assistance

If customer service or repairs are needed, contact your loon dealer. They have trained personnel, parts and service equipment specially designed for Icon products. Your machine's parts should only be replaced with Icon parts. Have the Serial Number and complete Model Number available when ordering parts from your Icon dealer (See Figure 2-1.)



Figure 2-1: ID Plate

Warranty Registration

Be certain to register the grader, by Online registration at <u>www.landoll.com</u> within 10 days of purchase or lease, in order to be on file at Landoll and eligible for Warranty.

Take time to read and understand the Warranty for this product. That Warranty is printed in the Owner's Manual (See Figure 2-2), and a separate copy enclosed in the packet.

ICON/Landoll reserves the right to make changes and/or add improvements to it's products at any time without obligation to previously manufactured equipment.

Please take time to complete the following information for your personal reference, should you need to contact your Dealer with questions or parts needs.

| MODEL | |
|------------------|--|
| SERIAL # | |
| DATE OF PURCHASE | |
| DEALER NAME | |

We at ICON/Landoll wish to thank you for purchasing our product. We have spent considerable time and effort to research, design, test and develop this machine and are confident it will serve you in the use for which it was designed.

LANDOLL CORPORATION Product Warranty

LANDOLL CORPORATION 1600 W. 8th St. Beloit KS 67420 (referred to as LANDOLL in this document)

LANDOLL shall Warrant workmanship and materials on the **ICON Industrial Products** for a period of 270 calendar day from the date of original purchase, lease, or rental, from the original Dealer, and in accordance with the following terms and conditions.

Should any part or component fail within the Warranty period, and under normal use conditions, LANDOLL shall supply a new part or component for replacement through the original Dealer. Cost of normal ground freight, for that part or component to the Dealer, shall be paid by LANDOLL. Repair and replacement labor cost, from the original Dealer, shall be paid by LANDOLL at a rate negotiated by LANDOLL.

No further expense shall be paid by LANDOLL, including but not limited to, loss of time or income.

LANDOLL shall not provide Warranty on any part or component that has failed due to abuse, misuse, alteration, improper maintenance, or normal wear. Failure occurring while being pulled by a tractor in excess of engine horsepower, as described in the owners manual and/or posted on the machine, is considered abuse and misuse and shall not receive Warranty. Warranty applies only to normal. intermittent agricultural use, and not commercial or industrial use.

In regard to some components manufactured by other companies and sold by LANDOLL, including but not limited to tires, said Warranty shall be provided solely by that manufacturing company.

This Warranty applies to products sold in the United States and Canada, and is made expressly in place of all other warranties, expressed or implied.

Understanding Safety Statements

You will find various types of safety information on the following pages and on the machine decals (signs) attached to the implement. This section explains their meaning.

NOTICE

Special notice - read and thoroughly understand.



CAUTION

Proceed with caution. Failure to heed caution may cause injury to person or damage product.



WARNING

Proceed with caution. Failure to heed warning <u>will</u> cause injury to person or damage product.



DANGER

Proceed with extreme caution. Failure to heed notice will cause injury or death to person and/or damage product.

NOTE

Means that failure to follow these instructions could cause damage to the equipment or cause it to operate improperly.

NOTE

Make sure you read and understand the information contained in this manual and on the machine signs (decals) before you attempt to operate or maintain this vehicle.

The safety statements contained in this manual relate to the operation of the Grader.

NOTE

You should read and understand the information contained in this manual and on the machine decals before you attempt to operate or maintain this equipment.

- Examine safety decals and be sure you have the correct safety decals for the machine. Order replacement decals through your Icon dealer.
- Keep these signs clean so they can be observed readily. It is important to keep these decals cleaned more frequently than the machine. Wash with soap and water or a cleaning solution as required.
- Replace decals that become damaged or lost. Also, be sure that any new machine components installed during repair include decals which are assigned to them by the manufacturer.
- When applying decals to the machine, be sure to clean the surface to remove any dirt or residue. Where possible, sign placement should protect the sign from abrasion, damage, or obstruction from mud, dirt, oil etc.

DANGER

- Keep Riders Off of Machinery
- Do not allow anyone to ride on tractor or machine. Riders could be struck by foreign objects or thrown from the machine.
- Never allow children to operate equipment.
- Keep bystanders away from machine during operation.

Safety Decals

See Decal Listing for decal locations.

NOTE

Replace all missing or damaged safety signs/decals.

Pinching or Crushing Danger

- Moving parts that are operated by hydraulic pressure can cause serious injury or death.
- 2. Use extreme caution when working around any moving part.
- 3. Do not allow any person to be on or near the machine while it is in motion.

Moving Parts

- 1. Be aware of all moving parts of the machine.
- Do not allow anyone to be near, or on the machine while operating any moving part.

Danger

- 1. Read and understand the operator's manual before using the machine.
- Allow no person to operate the machine before reading the manual and being instructed on proper operation.

Caution

This machine is designed for off road use only.

Danger, High Pressure

- 1. High pressure fluid can cause serious damage to hands and eyes.
- 2. Carefully relieve pressure before attempting any
- adjustments.
- 4. Tighten all fittings before applying pressure.

NOTE

If fluid is sprayed into eyes or injected into skin, **See a** doctor immediately!

Lubrication

- 1. Lubrication information is placed near each zerk.
- 2. Proper maintenance should be followed to assure the working life of the machine.

Proper Notification

- 1. Contact the proper authorities before you dig.
- When digging in a populated area, it is recommended that a call be made to area utilities to establish the local of any buried pipes, lines, or structures. When digging in open areas, research and know the local of any underground structures and objects.
- Striking the blades or bits against buried objects can cause damage to the machine, and is considered as abuse to the unit.

Storage Recommendations

NOTE

If the machine is being stored or not in use for a long period of time, it is recommended that a coating of heavy grease be applied to the exposed chrome cylinder rods. This will help to protect the coating from moisture and rust during this time.

Standard Specifications

Model Specification

| Specification | | | |
|--|---------------------|--|--|
| | Model 819 | | |
| Capacity Struck | 17.3 yd | | |
| Capacity Heaped | 19 yd | | |
| Shipping Weight | 28,000 lbs | | |
| Width of Cut | 10' | | |
| Overall Width | 10' - 11" | | |
| Transport Height | 9' - 1" | | |
| Replaceable Cutting Edge Center | 7/8" X 16" X 48" | | |
| Replaceable Cutting Edge Outside | 7/8" X 13" X 35.75" | | |
| Ground Clearance Full Raised | 18" | | |
| Maximum Cut Depth | 9" | | |
| Length Overall | 28' - 3" | | |
| Cylinders Lift | 5.5" X 22" | | |
| Cylinders Gate | 6" X 22" | | |
| Cylinders Push Off | 5' X 40" | | |
| Hydraulic Hoses | 3,000 psi rated | | |
| Hydraulics use a Sequencing Valve and requires 2 Tractor Remotes | 2 Valve System | | |
| Hitches | Cast 360° Swivel | | |
| Grease Locations | 30 total | | |
| Safety Warning Lights | Standard LED | | |
| Hub & Spindle | 20 Bolt 48,500 lbs. | | |

| Tire Inflation | | | | | |
|----------------|---------------------|--------------------------|---------------------------------|--|--|
| Tire Size | Tire Manufacturer | Ply/Load Rating | Inflation Pressure (Psi) (Max.) | | |
| 29.5 X 25 | Titan or equivalent | 28 Ply 38,580LBS. @ 5MPH | 62 psi | | |

| Recommended Torque Specification For Lug Bolts and Nuts | | | | |
|---|-------------------|--|--|--|
| Bolt Size | Torque (FT. LBS.) | | | |
| 7/8-14 | 450ft. lbs. | | | |

General Torque Specifications (rev. 4/97)

TORQUE SPECIFIED IN FOOT POUNDS - This chart provides tightening torques for general purpose applications when special torques are not specified on process or drawing. Assembly torques apply to plated nuts and cap-screws assembled without supplemental lubrication (as received condition). They do not apply if special graphite moly-disulfide or other extreme pressure lubricants are used. When fasteners are dry (solvent cleaned) add 33% to as received condition torque. Bolt head identification marks indicate grade and may vary from manufacturer to manufacturer. Thick nuts must be used on grade 8 cap-screws. Use value in [] if using prevailing torque nuts.

| UNC SIZE | | AE de 2 | | AE de 5 | | AE de 8 | UNF SIZE | | AE de 2 | | AE ide 5 | | AE ide 8 |
|-------------|-----|------------|------|------------|------|------------|-------------|-----|------------|------|-------------|------|-------------|
| 1/4-20 | 4 | [5] | 6 | [7] | 9 | [11] | 1/4-28 | 5 | [6] | 7 | [9] | 10 | [12] |
| 5/16-18 | 8 | [10] | 13 | [13] | 18 | [22] | 5/16-24 | 9 | [11] | 14 | [17] | 20 | [25] |
| 3/8-16 | 15 | [19] | 23 | [29] | 35 | [42] | 3/8-24 | 17 | [21] | 25 | [31] | 35 | [44] |
| 7/16-14 | 24 | [30] | 35 | [43] | 55 | [62] | 7/16-20 | 27 | [34] | 40 | [50] | 60 | [75] |
| 1/2-13 | 35 | [43] | 55 | [62] | 80 | [100] | 1/2-20 | 40 | [50] | 65 | [81] | 90 | [112] |
| 9/16-12 | 55 | [62] | 80 | [100] | 110 | [137] | 9/16-18 | 60 | [75] | 90 | [112] | 130 | [162] |
| 5/8-11 | 75 | [94] | 110 | [137] | 170 | [212] | 5/8-18 | 85 | [106] | 130 | [162] | 180 | [225] |
| 3/4/10 | 130 | [162] | 200 | [250] | 280 | [350] | 3/4-16 | 150 | [188] | 220 | [275] | 320 | [400] |
| 7/8-9 | 125 | [156] | 320 | [400] | 460 | [575] | 7/8-14 | 140 | [175] | 360 | [450] | 500 | [625] |
| 1-8 | 190 | [237] | 408 | [506] | 680 | [850] | 1-14 | 210 | [263] | 540 | [675] | 760 | [950] |
| 1-1/8-7 | 270 | [337] | 600 | [750] | 960 | [1200] | 1-1/8-12 | 300 | [375] | 660 | [825] | 1080 | [1350] |
| 1-1/4-7 | 380 | [475] | 840 | [1050 | 1426 | [1782] | 1-1/4-12 | 420 | [525] | 920 | [1150] | 1500 | [1875] |
| 1-3/8-6 | 490 | [612] | 1010 | [1375] | 1780 | [2225] | 1-3/8-12 | 560 | [700] | 1260 | [1575] | 2010 | [2512] |
| 1-1/2-6 | 650 | [812] | 1460 | [1825] | 2360 | [2950] | 1-1/2-12 | 730 | [912] | 1640 | [2050] | 2660 | [3325] |
| 1-3/4-5 | 736 | [920] | 1651 | [2063] | 2678 | [3347] | 1-3/4-12 | 920 | [1150] | 2063 | [2579] | 3347 | [4183] |

METRIC:

Coarse thread metric class 10.9 fasteners and class 10.0 nuts and through hardened flat washers, phosphate coated, Rockwell "C" 38-45. Use value in [] if using prevailing torque nuts.

| Nominal thread diameter (mm) | Newton Meters (Standard Torque) | Foot Pounds (Standard Torque) | Nominal Thread Diameter (mm) | Newton Meters (Standard Torque) | Foot Pounds (Standard Torque |
|---------------------------------------|--|-------------------------------------|---------------------------------------|--|------------------------------------|
| 6 | 10 [14] | 7 [10] | 20 | 385 [450] | 290 [335] |
| 7 | 16 [22] | 12 [16] | 24 | 670 [775] | 500 [625] |
| 8 | 23 [32] | 17 [24] | 27 | 980 [1105] | 730 [825] |
| 10 | 46 [60] | 34 [47] | 30 | 1330 [1470] | 990 [1090] |
| 12 | 80 [125] | 60 [75] | 33 | 1790 [1950] | 1340 [1450] |
| 14 | 125 [155] | 90 [115] | 36 | 2325 [2515] | 1730 [1870] |
| 16 | 200 [240] | 150 [180] | 39 | 3010 [3210] | 2240 [2380] |
| 18 | 275 [330] | 205 [245] | | | |

Table 3-1: General Torque Specifications

Hydraulic Fitting Torque Specifications

TORQUE IS SPECIFIED IN FOOT POUNDS- 37° JIC, ORS, & ORB (REV. 10/97)

This chart provides tightening torques for general purpose applications when special torques are not specified on process or drawing. Assembly torques apply to plated nuts and capscrews assembled without supplemental lubrication (as received condition). They do not apply if special graphite moly-disulfide or other extreme pressure lubricants are used. When fasteners are dry (solvent cleaned) add 33% to as received condition torque. Bolt head identification marks indicate grade and may vary from manufacturer to manufacturer. Thick nuts must be used on grade 8 capscrews. Use value in [] if using prevailing torque nuts.

Parker Brand Fittings

| Dash Size | 37 Degree JIC | O-Ring (ORS) | O-Ring Boss (ORB) |
|-----------|---------------|--------------|-------------------|
| -4 | 11-13 | 15-17 | 13-15 |
| -5 | 14-16 | | 21-23 |
| -6 | 20-22 | 34-36 | 25-29 |
| -8 | 43-47 | 58-62 | 40-44 |
| -10 | 55-65 | 100-110 | 58-62 |
| -12 | 80-90 | 134-146 | 75-85 |
| -16 | 115-125 | 202-218 | 109-121 |
| -20 | 160-180 | 248-272 | 213-237 |
| -24 | 185-215 | 303-327 | 238-262 |
| -32 | 250-290 | | 310-340 |

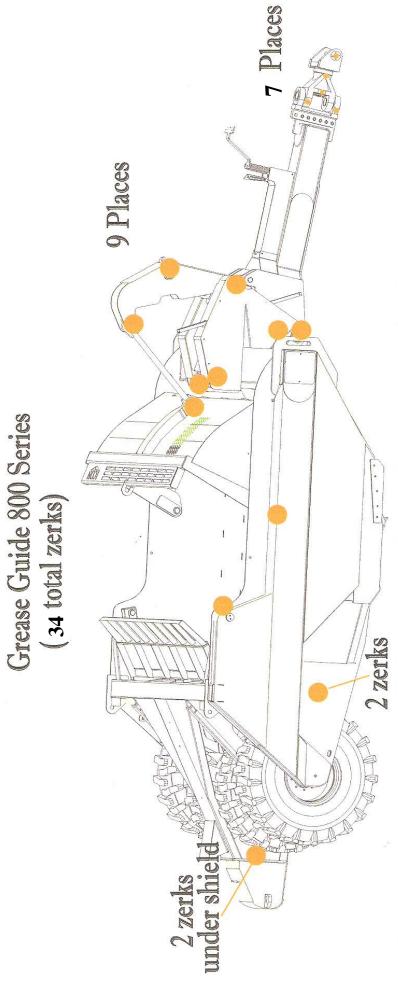
Gates Brand Fittings

| Dash Size | 37 Degree JIC | O-Ring (ORS) | O-Ring Boss (ORB) |
|-----------|---------------|--------------|-------------------|
| -4 | 10-11 | 10-12 | 14-16 |
| -5 | 13-15 | | |
| -6 | 17-19 | 18-20 | 24-26 |
| -8 | 34-38 | 32-40 | 37-44 |
| -10 | 50-56 | 46-56 | 50-60 |
| -12 | 70-78 | 65-80 | 75-83 |
| -14 | | 65-80 | |
| -16 | 94-104 | 92-105 | 111-125 |
| -20 | 124-138 | 125-140 | 133-152 |
| -24 | 156-173 | 150-180 | 156-184 |
| -32 | 219-243 | | |

Aeroquip Brand Fittings

| Dash Size | 37 Degree JIC | O-Ring (ORS) | O-Ring Boss (ORB) |
|-----------|---------------|--------------|-------------------|
| -4 | 11-12 | 10-12 | 14-16 |
| -5 | 15-16 | | 16-20 |
| -6 | 18-20 | 18-20 | 24-26 |
| -8 | 38-42 | 32-35 | 50-60 |
| -10 | 57-62 | 46-50 | 75-80 |
| -12 | 79-87 | 65-70 | 125-135 |
| -14 | | | 160-180 |
| -16 | 108-113 | 92-100 | 200-220 |
| -20 | 127-133 | 125-140 | 210-280 |
| -24 | 158-167 | 150-165 | 270-360 |
| -32 | 245-258 | | |

Table 3-2: Hydraulic Fitting Torque Specifications



All Locations Are Grease Daily, Except Axles (2 zerks per hub - 3 pumps weekly)

About the ICON 819/821 Limited Warranty......

The ICON 800 Series scraper is designed with front lowering and a push bumper on the rear. The responsibility of use of this push bumper is left up to the discretion of the owner and operator.

When push loading a pull type scraper, there are many issues to contend with so as not to damage the scraper or the pull type tractor. The most important is the operator. The push tractor can be an issue. Size and power must be kept within reasonable range. Should the pull tractor operator put the scraper bit too deep into the ground, damage can occur due to undue stress on the frog of the scraper. A straight push is necessary. Out of line or side stress can damage the rear frame and possibly the scraper tires. Hard hits on link up with the push bumper can also damage the machine. Whether loading single or tandem machines, care must be taken not to jackknife the machines. Trained operators and common sense will create less damage and downtime. When pushing in a bogged down or stuck condition, extreme care must be taken so as not to side stress or damage the rear frame.

Due to the many ways in which the scraper can be damaged while pushing.

ICON will not Warranty damage to the scraper occurred while pushing.



Optional Depth Gauge For 800 Series

Shown is the optional depth gauge extension frame. It mounts, by use of two (2) of the existing cover bolts. This allows easier viewing of the back machine, in a tandem hook up.

By removing the rear bolt on the frame, allows the unit to fold down for transport.

CAUTION: Care should be used when folding the extension down. Be sure to keep hands and fingers out of the way, as the folding motion of the extension can cause serious pinching and crushing injury.

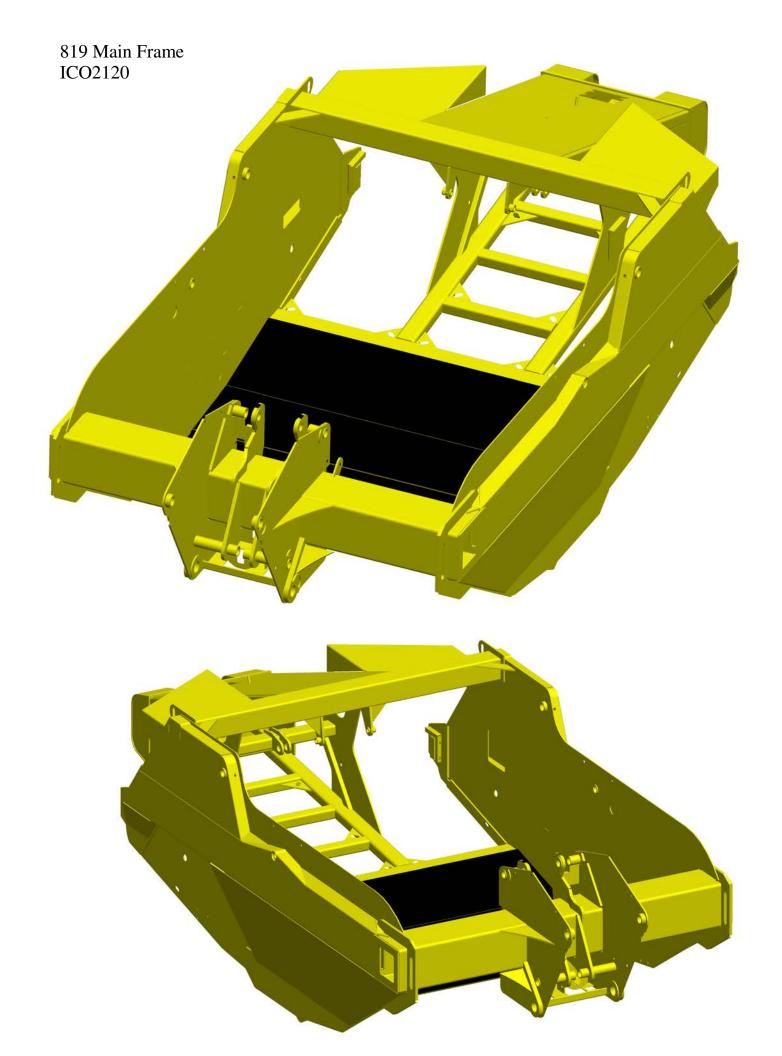
The extension bracket also contain the pointer for the gauge.

The extension and all the components are available to retro fit all existing 821 and 819 earthmovers. The part # is 2000598

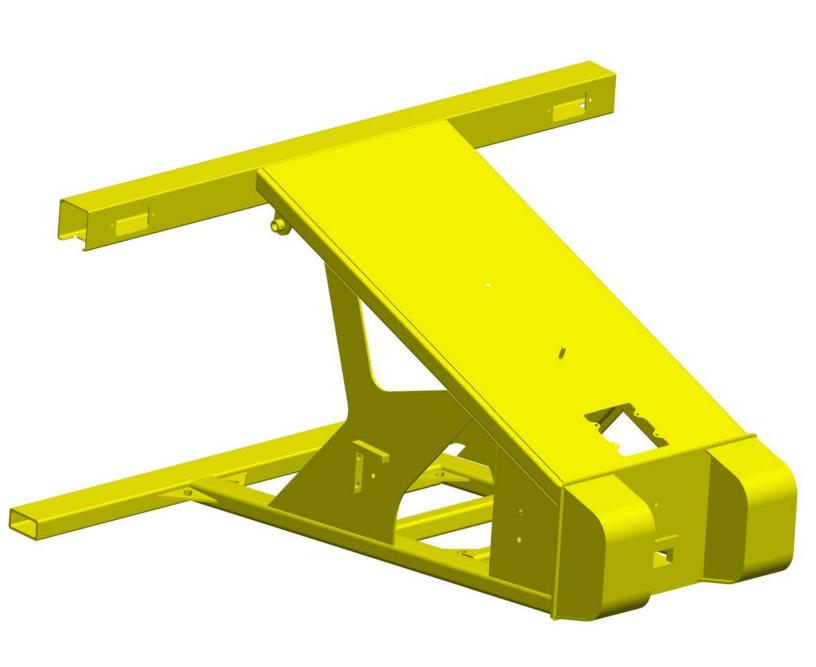




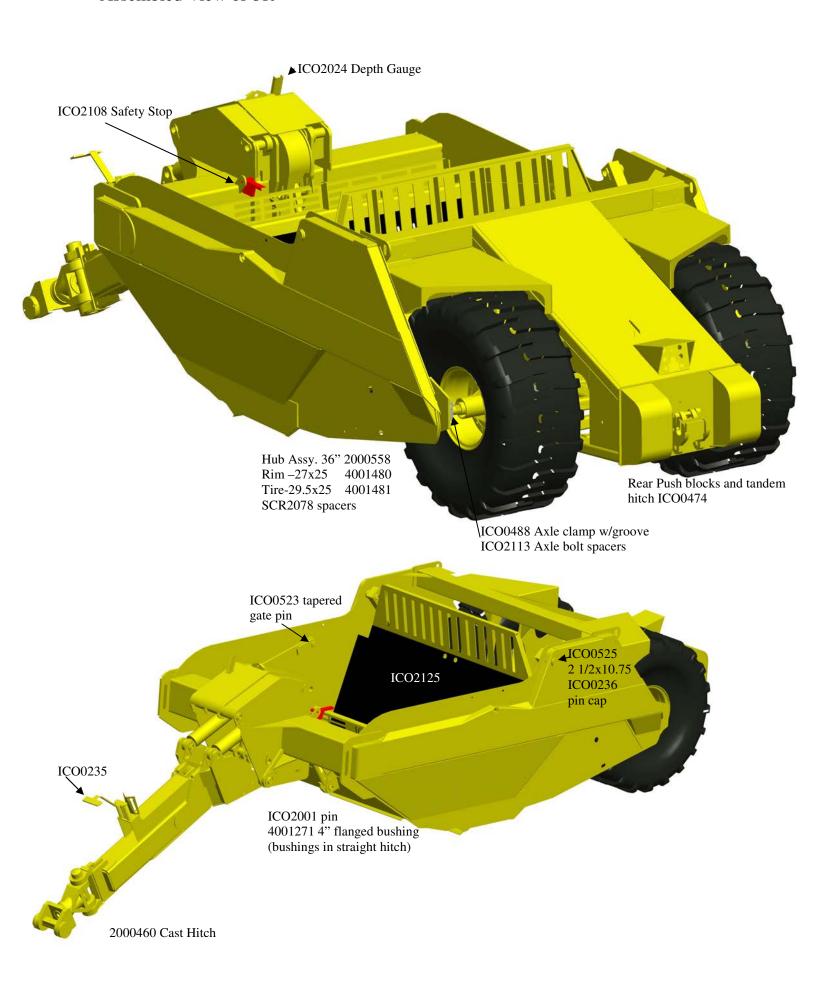


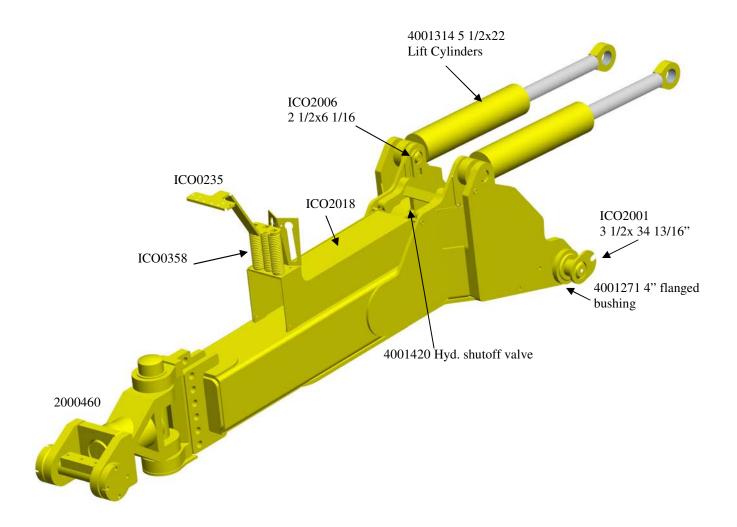


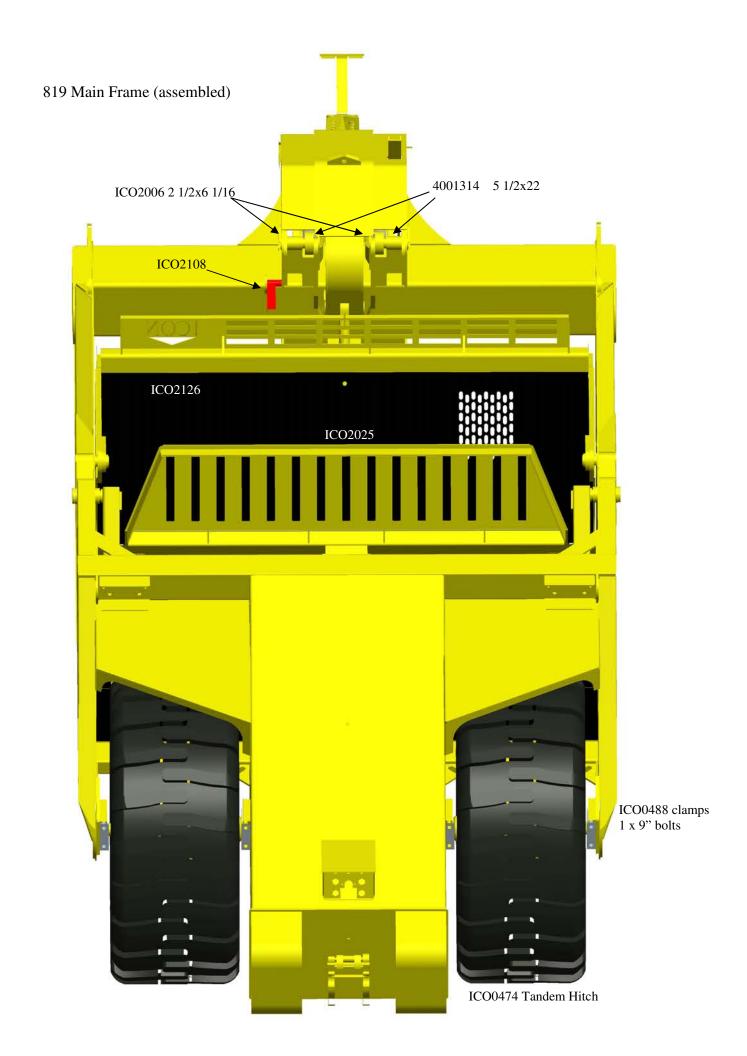
Rear View of Main Frame Showing Push Blocks And Axle Mounting Tabs.

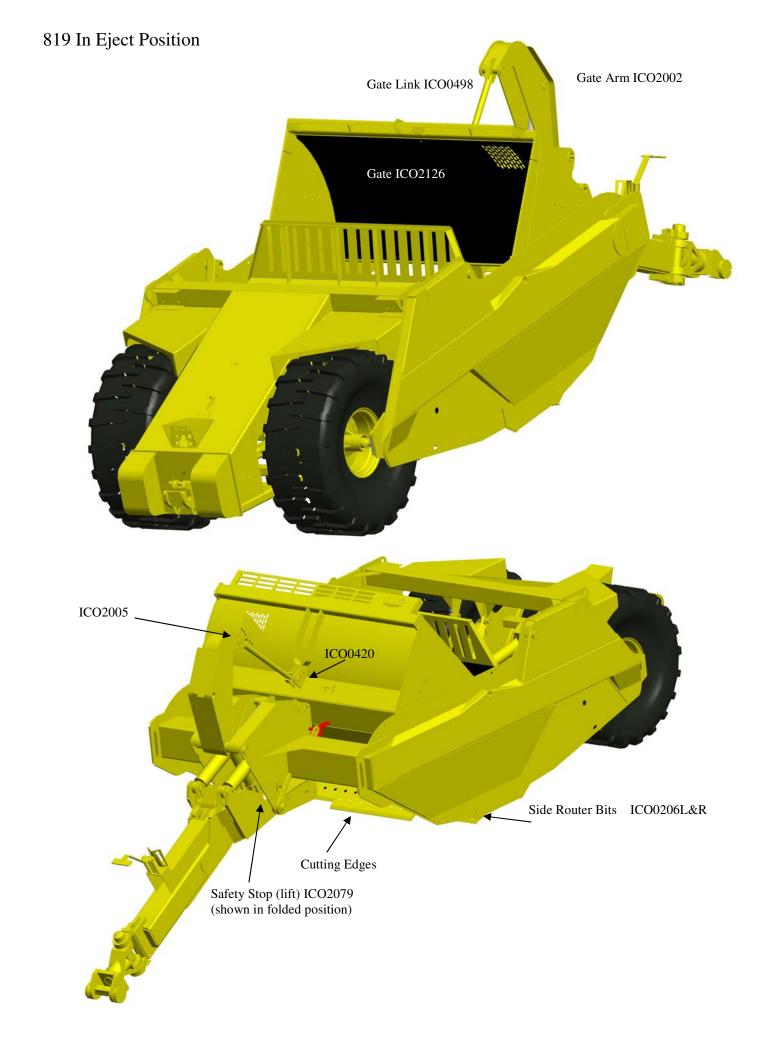


Assembled View of 819



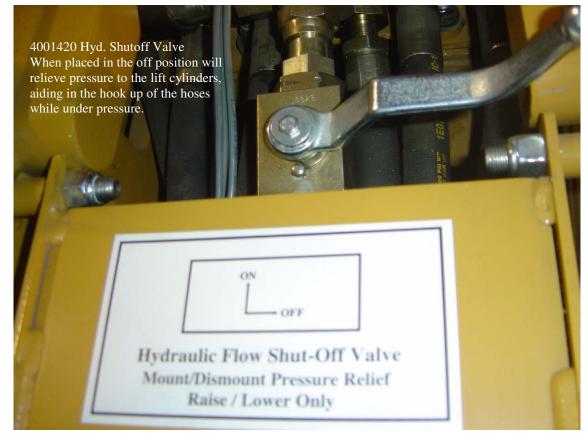












Components of the 800 Series Earthmovers





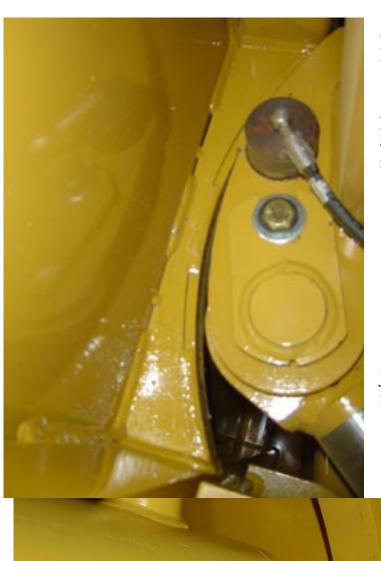
View of the tandem hose routing, the push off framework and push off cylinder.

The remote grease line allows the center pin to be greased from the outside of the machine.

Shown with the gate in the open position.







Shown is the push off bearing ICO0258 and pin ICO0218.

This bearing rolls on the curved pad (shown). This allows a smooth and stable cycle through the full motion of the push off wall.

The bushing and pin are located just below the push off cylinder mounting pin.

Clam Pivot Pin (ICO0523)



Shown is the ICO0523 Clam Pivot Pin. The tapered pin is threaded for an 1 1/2" nut. NOTE: The nut should be torqued to 650 ft. lbs.



Parts Listing For 819 Earthmover

| Ref # | Part # | Description | Qty |
|-------------|-----------------------------|-------------|-----|
| 1. ICO2127 | Push Off Wear Strip | | 2 |
| 2. ICO0206L | Left Side Cutting Edge | | 1 |
| 3. ICO0206R | Right Side Cutting Edge | | 1 |
| 4. ICO2089 | Push Off Linkage | | 2 |
| 5. ICO0213 | Push Off Support | | 1 |
| 6. ICO2045 | Pin, 1 1/2" x 4 1/4" (chron | ne) | 4 |
| 7. ICO1128 | Brake Hose Protector | | 4 |
| 8. ICo0235 | Hose Support | | 1 |
| 9. ICO0236 | Push Off Pin Cap | | 2 |
| 10. ICO2124 | Push Off Frame | | 1 |
| 11. ICO2125 | Push Off Wall | | 1 |
| 12. ICO0335 | Axle Nut Wrench | | 1 |
| 13. ICO0358 | Hose Support Spring | | 3 |
| 14. ICO0420 | Pin, 2 1/2" x 5 3/8" | | 3 |
| 15. ICO0464 | Accumulator Mount | | 2 |
| 16. ICO0498 | Gate Link | | 1 |
| 17. ICO0501 | Pin, 2 1/2" x 4 1/2" | | 3 |
| 18. ICO0512 | Tandem Coupler Holder | | 1 |
| 19. ICO0523 | Pin, Gate Tapered | | 2 |
| 20. ICO0525 | Pin, 2 1/2" x 10 3/4" (po f | rame) | 2 |
| 21. ICO2000 | 819 Straight Hitch | | 1 |
| 22. ICO2001 | Pin, 32 3/8" x 3 1/2" | | 1 |
| 23. ICO2002 | 819 Gate Arm | | 1 |
| 24. ICO2003 | Pin, 31 13/16" x 2 1/2" | | 1 |
| 25. ICO2005 | Pin, 9 1/2" x 2 1/2" | | 4 |
| 26. ICO2006 | Pin, 6 1/16" x 2 1/2" | | 2 |
| 27. ICO2018 | Hose Guard | | 1 |
| 28. ICO2019 | Light Holder | | 2 |
| 29. ICO2020 | Brake Cover | | 2 |
| 30. ICo2024 | Depth Gauge | | 1 |
| 31. ICO2108 | Cylinder Stop (gate) | | 1 |
| 32. ICO2031 | Accumulator Valve Brack | et | 1 |
| 33. ICO2032 | Accumulator Valve Brack | tet @2 | 1 |
| 34. ICO2033 | Tongue Cover (right) | | 1 |
| 35. ICO2041 | Tongue Cover (left) | | 1 |
| 36. ICO2042 | Accumulator Valve Actua | tor | 1 |
| 37. ICO2126 | 819 Gate | | 1 |
| 38. ICO2044 | Accumulator Valve Moun | ting Block | 1 |
| 39. ICO2079 | Safety Stop (lift) | | 1 |
| 40. 4000851 | Cutting Edge, 7/8" x 13" x | x 35.75" | 2 |
| 41. 4000958 | Cutting Edge 7/8" x 16" x | 48" | 1 |
| 42. 2000558 | Hub Assembly 36" | | 2 |
| 43. 4001480 | Rim, 27 x 25 5 pc. | | 2 |
| 44. ICO0225 | Rear Side Pipe Clamps | | 2 |
| 45. 4001481 | Tire, 29.5 x 25—28 ply | | 2 |
| 46. ICO2049 | Rear Hyd. Cover (single) | | 1 |
| 47. 4001035 | Hyd. Cylinder 5 x 40 (53 3 | | 1 |
| 48. 4001236 | Hyd. Cylinder 6 x 22 (37 | | 1 |
| 49. 4001314 | Hyd. Cylinder 5 1/2 x 22 (| | 2 |
| 50. 4001317 | Hyd. Accumulator Valve | VS4BCBF9 | 1 |
| 51. 4001449 | Hyd. Counter Valve CBG | | 1 |
| 52. 4001450 | Hyd. Sequence Valve SCO | GA-LAN | 1 |
| 53. 4001451 | Hyd. Pilot Chk Valve CK | | 1 |
| 54. 4001452 | Hyd. Valve Block Sequen | | 1 |
| 55. ICO2069 | Gate Pin Cover | | 2 |
| | | | |

Parts Listing Cont.

| 56. | 4001300 | Lights Modular (left w/brake) | 1 |
|-----|---------|--|----|
| 57. | LT0058 | Lights 819 Rear Harness | 1 |
| 58. | LT0059 | Lights 819 Front Harness | 1 |
| 59. | 4001301 | Lights, Modular (right w/brake) | 1 |
| 60. | 2000460 | Cast Swivel Hitch (complete) | 1 |
| 61. | ICO2033 | Tongue Cover Rt. | 1 |
| 62. | ICO2041 | Tongue Cover Left | 1 |
| 63. | 4002081 | Accumulator (charged to 600 psi) | 1 |
| 64. | 4001414 | Bushings (175150150) plastic (non grease) | 4 |
| 65. | ICO0350 | Gate Link Spacer | 2 |
| 66. | 2000474 | Optional Tandem Hitch | 1 |
| 67. | ICO0218 | Pin, 2 1/2" x 5 3/4" (tandem hitch mounting pin) | 1 |
| 68. | 2000524 | Decal Kit (819) | 1 |
| 69. | ICO2120 | 819 Main Frame | 1 |
| 70. | ICO0258 | Push Off Bearing | 1 |
| 71. | ICO0488 | Axle Clamp w/groove | 4 |
| 72. | ICO2113 | Axle Bolt Spacers | 8 |
| 73. | SCR2078 | Wheel Bolt spacers | 40 |
| 74. | 4001420 | Hyd. Shutoff Valve (lift) | 1 |
| 75. | 4001421 | Accumulator U Bolt | 1 |
| 76. | ICO2007 | Pin, 2 1/2" x 20 5 /16" | 1 |
| 77. | 4001419 | Bearing, Sealed NTN SBX0339 | 1 |
| 78. | ICO2068 | Washer For 3 1/2" Pin (straight hitch) | 1 |
| 79. | ICO2069 | Gate Pin Cover | 2 |
| 80. | ICO2016 | Model 819 Cover | 2 |
| 81. | ICO2017 | Model 819 Cover | 2 |
| 82. | ICO2053 | 819 Axle Nut | 5 |
| 83. | 2000581 | 819 Brake Assembly | 1 |
| 84. | 2000582 | 819 Bolt Kit | 1 |
| 85. | 5001115 | 819 Hose Kit (single) | 1 |
| 86. | 5000982 | 819 Hyd. fittings Kit | 1 |
| 87. | 4001271 | Flanged 4" bushing. (located in straight hitch) | 2 |
| | | | |

Bolt Listing For 819

| Part # | Description | Ref# Where Used | Qty |
|---|--|---|------------------------------|
| BC WFH NH | Bolt, Carriage 1/2 x 1 1/2" Washer, Flat Hard 1/2 Nut, Hex | PO Wall Wear Strip (1) | 12 12 12 |
| BP WFH NJ | Bolt, Plow 3/4 x 2 1/2" Washer, Flat, Hard 3/4 Nut, Jam 3/4 | Side Cutting Edges (2 & 3) | 10 10 10 |
| BH NL WF | Bolt, Hex 1 x 6" Nut, Nyloc 1" Washer, Flat 1" | Push Off Support to Wall | 4 4 4 |
| BP WFH NJ | Bolt, Plow 1 x 2 1/2" Washer, Flat, Hard 1" Nut, Jam 1" | Cutting Bits & Frost Bit | 22 22 22 |
| WFH NJ | Washer, Flat, Hard 1 1/2" Nut, Jam 1 1/2" | Clam Pins | 2 2 |
| BH NH | Washer, Flat, Hard 1 1/2" Nut, Hex 1 1/2" | Swivel Hitch Mount | 6 6 |
| BH WF WFH | Bolt, Hex 1/2 x 1" Washer, Flat 1/2" Washer, Flat, Hard 1/2" | Springs on Hose Holders | 6 6 6 |
| BH NL | Bolt, Hex 1/2 x 3" Nut, Nyloc 1/2" | Pin Keepers on all 1 1/2" Pins | 5 5 |
| WM | Washer, Machine 2.5 x 3.5OD | Push Off Frame Spacers | 8 |
| BH BH WF WFH ICO1118 ICO1117 | Bolt, Hex 3/4 x 1 1/2" Bolt, Hex 3/4 x 1 3/4" Washer, Flat 3/4" Washer, Flat, Hard 3/4" Pin Spacer 9/16" Pin Spacer 3/4" | Pin Keepers For All 2 1/2" pins (except ICO0222 center frame pin) | 7 3 10 10 7 3 |
| 4000067 4000720 | Zerk Straight 1/8" Zerk Adapter 1/8 –27-18NPT 90 ELB | | 15 2 |
| BH WFH | Bolt, Hex 5/8 x 1 1/2" Washer, Flat 5/8" | Push Off Frame Pin Caps Washer, Flat 5/8" | 4 4 |
| WM | Washer, Machine 2.5 x 3.5OD | PO to PO Frame Spacers | 4 |
| ICO0350 | Spacer | Gate Link | 2 |
| BH WFH | Bolt, Hex 3/4 x 2 1/2" Washer, Flat, Hard 3/4" | Depth Gauge | 1 1 |
| BH WFH | Bolt, Hex 1 x 9" Washer, Flat, Hard 1" | Axle Clamp Bolts | 16 16 |
| BH BH WFH | Bolt, Hex 3/4 x 1 3/4" Bolt, Hex 3/4 x 2 1/2" Washer, Flat, Hard 3/4" | Acc Valve to Tongue | 1 1 2 |

| Part# | Description | Where Used | Qty |
|-----------------------|--|------------------------------------|---------------------|
| SCR2078 BH WFH BH WFH | olt Listing Cont. Spacer For Wheels Bolt, Hex 7/8 x 3" Fine Washer, Flat, Hard 7/8" Bolt, Hex 1/2 x 1" Washer, Flat, Hard 1/2" | Wheel Bolts Front Hyd Cover Plates | 40 40 40 4 |
| BH NW | Bolt, Hex 1/2 x 1 1/2" Nut, Whiz 1/2" | PO Wall Extension | 10 10 |
| BH WFH | Bolt, Hex 1/2 x 1" Washer, Flat, Hard 1/2" | Hyd Covers (rear) | 4 4 |
| ВН | Bolt, Hex 3/8 x 2" | Accumulator Valve to Block | 2 |
| BH WF | Bolt, Hex 1/4 x 3/4" Washer, Flat 1/4" | Bracket to Acc. Valve | 4 4 |
| BH NL | Bolt, Hex 1/2 x 4" Nut, Nyloc 1/2" | Acc. Pivot to Bracket | 1 1 |
| BH WFH | Bolt, Hex 5/8 x 2 1/2" Washer, Flat, Hard 5/8" | Acc. Valve Roller to Pivot | 1 2 |
| BH NW WF | Bolt, Hex 1/2 x 6" Nut, Whiz 1/2" Washer, Flat 1/2" | Hyd Block to Main Frame | 2 2 4 |
| BH WFH | Bolt, Hex 1/2 x 1" Washer, Flat, Hard 1/2" | Rear Hyd Cover | 4 4 |
| BH WF WL NH | Bolt, Hex 1/4 x 1" Washer, Flat 1/4" Washer, Lock 1/4" Nut, Hex 1/4" | Lights to Top Hyd Covers | 8 8 8 |
| BH WFH | Bolt, Hex 1/2 x 1 1/2" Washer, Flat, Hard 1/2" | Gate Arm Side Covers | 6 6 |
| BH WFH NW | Bolt, Hex 1/2 x 1" Washer, Flat, Hard 1/2" Nut, Whiz 1/2" | Hose Cover | 4 4 4 |
| Bh | Bolt, Hex 1/2 x 1 1/2" | Tandem Cover Plate | 4 |
| BH NL WFH | Bolt, Hex 1 x 6" Nut, Nyloc 1" Washer, Flat, Hard 1" | Gate Safety Stop | 1 1 1 |
| NL WFH | Nut, Nyloc 1/2" Washer, Flat, Hard 1/2" | Bulk Head | 2 2 |

Tandem Hitch and Swivel Hitch

ICO0474

Shown is the tandem hitch assembly used on all ICON models. It allows for one person hook /unhook , without the need to have hands in harms way.

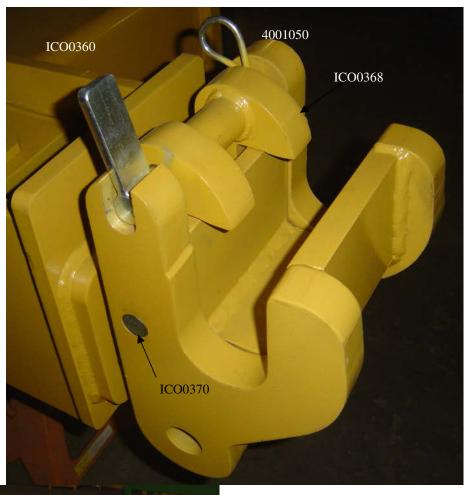
ICO0370 Pivot Pin

ICO0369 Lockdown Pin

4001050 Spring Clip

ICO0368 Lockdown Ears

The pivot pin is secured in place with (2) 3/16 x 3 1/2" cotter pins.





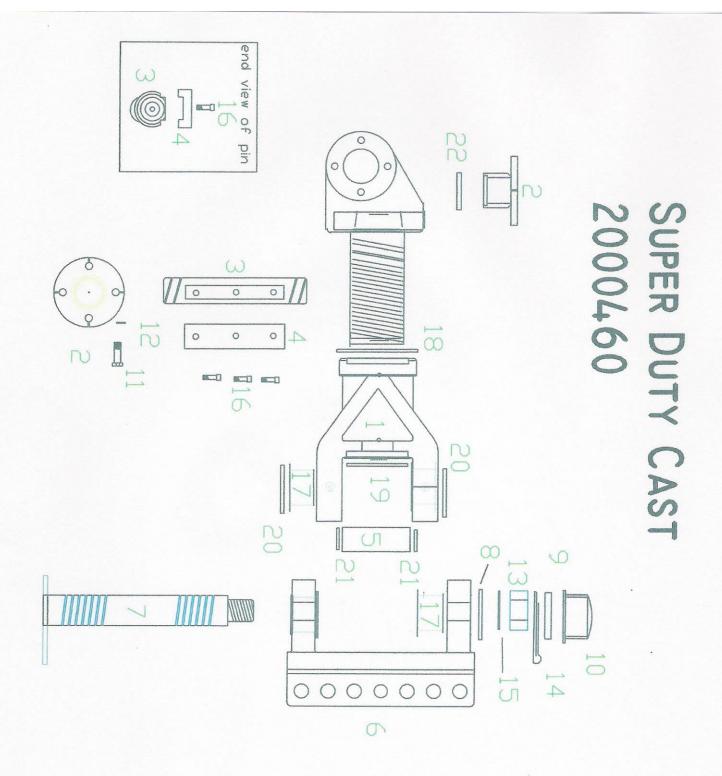
Shown is the 2000460 swivel hitch (standard on 800 series) and the tandem hitch (ICO0474) on the 819 earthmover.



Shown is the 3" pin (ICO2052) used with the cast hitch. The top is milled to allow the retainer plate (ICO2051) to bolt on using (3) 5/8 x 3" bolts.









| Ref # Description | Qty | Part # |
|-------------------------------|-----|-----------|
| 1 Cast Swivel | 1 | ICO1092 |
| 2 Quick Attach 3" Pin Cap | 2 | ICO1093 |
| 3 Quick Attach 3" Pin | 1 | ICO2052 |
| 4 Quick Attach Pin Keeper | 1 | ICO2051 |
| 5 Hitch Spacer Tube | 1 | ICO1061 |
| 6 Cast Hitch Bracket | 1 | ICO1055 |
| 7 Main Vertical Pin | 1 | ICO1062 |
| 8 6" Swivel Hitch Spacer | 1 | ICO1086 |
| 9 2" Rubber Hose | 1 | ICO1087 |
| 10 4" PVC Cap | 1 | 4001292 |
| 11 Bolt, Hex 3/4 x 2" gr. 8 | 8 | BH 3/4 |
| 12 Washer, Flat Hard 3/4" | 8 | WFH 3/4 |
| 13 Nut, Slotted 2 1/2" Course | 1 | NS 2 1/2 |
| 14 Pin, Cotter 3/8 x 5" | 1 | PC 3/8 |
| 15 Washer, Flat 2 1/2" Hard | 1 | WFH 2 1/2 |
| 16 Bolt, 5/8 x 3" | 3 | BH 5/8 |
| 17 Bushing | 4 | 4001271 |
| 18 O-Ring 8 7/8x8 1/2" ID | 1 | 4001272 |
| 19 O-Ring 7 3/8x7" ID | 1 | 4001286 |
| 20 O-Ring 5 7/8x 5" ID | 2 | 4001275 |
| 21 O-Ring 4 x 3 5/8" ID | 2 | 4001274 |
| 22 Wiper Seal 3 1/2 x 3 1/4" | 2 | 4001298 |

Hub & Axle Assembly

Hub and brake assembly for the 800 series hub (ICO2121)

29.5 x 25 tire (40014801) on 25 x 25, 5pc rim (4001480)





Wheels are attached to the hubs with $(20) 3/4 \times 3$ " fine thread bolts.

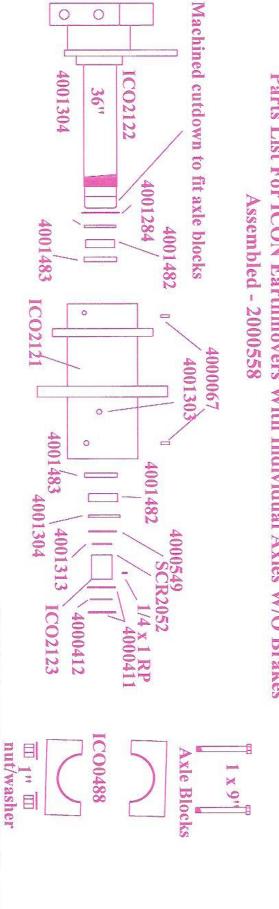
Axle and wheel assembly mounted on 819.



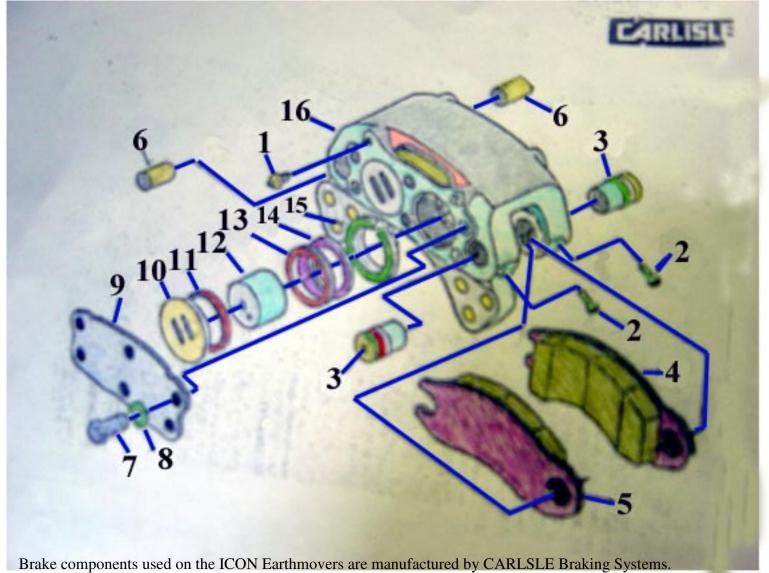


Wodel 819

Parts List For ICON Earthmovers With Individual Axles W/O Brakes



Machined step to prevent axle side movement



Below is a list of the components currently used on the Earthmover brakes. ICON does not stock or supply these components, they must be ordered directly from the Mfr. NOTE: Use only CARLISLE Approved parts.

Brake Head Assembly #419-888

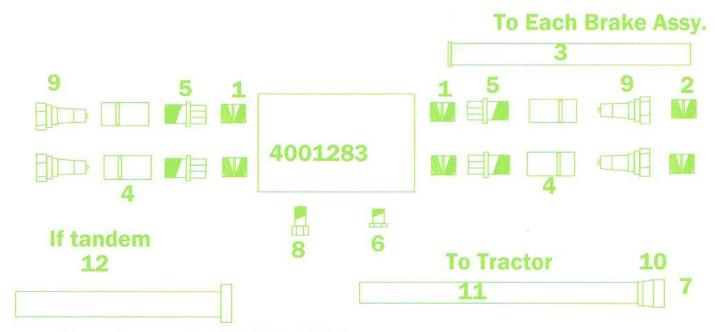
| | | Diake Head Assembly #419-00 | 0 | |
|-------|------------|-----------------------------|-----------------|------|
| Index | Part | Description | | Qty. |
| 1. | 84-35 | Bleeder Valve | (CAT #7K-4942) | 1 |
| 2. | 43-1140 | Bolt, Hex | (CAT #3V-0197) | 4 |
| 3. | 20-554 | Pin | | 2 |
| 4. | 244-741-2 | Lining & Carrier Assy. | | 1 |
| 5. | 244-741-1 | Lining & Carrier Assy. | | 1 |
| 6. | 20-490 | Pin | (CAT #4V-7277) | 2 |
| 7. | 43-1299 | Bolt, Hex | | 6 |
| 8. | 80-717 | Washer | | 6 |
| 9. | 93-986 | Plate, Cover | | 1 |
| 10. | 49-402 | Plug, Piston | (CAT #114-9304) | 2 |
| 11. | *NSS | Packing Plug | | 2 |
| 12. | 74-927 | Piston | (CAT #114-9306) | 4 |
| 13. | *NSS | Packing Piston | | 4 |
| 14. | *NSS | Retainer Ring | | 4 |
| 15. | *NSS | Boot | | 4 |
| 16. | +184-979 | Torque Plate | | 1 |
| | **306-7376 | Parts Kit | | 1 |
| | 328-741 | Lining Kit | | 1 |
| | | _ | | |

^{*}These items not sold separately: see parts kit

^{**} Kit contains — 4 ea of item 13, 14, and 15. (2) of item 11.

⁺ Not a repairable or replaceable item, do not stock as spares.

Brake Fittings/Hose Package For 800 Series Block is located on upper rear frame.



If tandem unit, (2) 5001015 instead of plug. (5000355)

| Item # | Description | Qty | Ref. # |
|---------|-----------------------------------|-----|--------|
| 5000919 | Hyf-Adap 6MB-6MB | 4 | 1 |
| 5000903 | Hyf-Adap 6FB-10MB | 4 | 2 |
| 5000997 | Hose - 4MB-4M3Kx98"-6MB | 4 | 3 |
| 5000845 | Pioneer 1/2" Female End | 4 | 4 |
| 5000920 | Hyd-Adap 8MB-6FB | 4 | 5 |
| 5000355 | Hyd-Plug 8MB | 1 | 6 |
| 5000907 | Brake Coupler VF-0/1815 | 1 | 7 |
| 5001015 | Hyf-Adap 8MB-8FFORX (2 if tandem) | 1 | 8 |
| 5000835 | Pioneer Male End 8010-16P 10FB | 4 | 9 |
| 5000906 | Hyd-Adap JIC to M 7400-10-18 | 1 | 10 |
| 5000996 | Hose - 8MFFOR-8M3Kx538"-10FJX | 1 | 11 |
| 5001016 | Hose-10FJX-8M3Kx65-8MFF0R | 1 | 12 |
| 5001120 | Hose-10FJX-8M3Kx80-8MFF0R (819) | 1 | 12 |

(#12 used on tandem)



| | | Cutting Edges | |
|----------|-----------------------------|------------------------|----------------------------|
| Location | Dimensions | # | CAT# |
| Side (2) | 7/8 x 13 x 35.75 | 4000851 | 178-4080 |
| Center | 7/8 x 16 x 48 | 4000958 | 174-8002 |
| | 7/8 x 19 x 48 | 4001013 | |
| | (longer more aggressive cur | t) | |
| | | Bolts Per Blade | |
| 4000851 | 6 | | Cutting Edges |
| 4000958 | 8 | | 1 x 2 1/2" gr. 8 Plow Bolt |
| 4001013 | | | 1" gr. 8 Jam Nuts |
| | | | 1" Hardened Flat Washers |
| | | | |

Side Cutting Edges

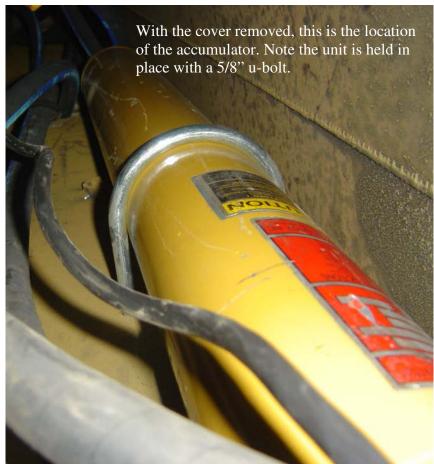
ICO0206L & R ICO2172/73 Each side requires (5) 3/4 x 2 1/2" Plow Bolts, Hard Washers and Hex Nuts. (4" longer - will interchange with existing edges)

ICON now installs hydraulic accumulators on all machines. The 2 gallon unit is charged to 600 psi and greatly reduces the shock and bounce of a loaded machine.

Shown in the first picture is the accumulator unit that is used on all models. Here it is shown mounted on a rear lowering machine. Since the 821/819 lowers from the front, the accumulator is now mounted inside the frame. (as fig.2 shows).







Accumulator Components

Complete Assembly—2000459

| # 4001267 | Description Q 2 gal. Accumulator (600psi) |)ty 1 |
|--------------|--|----------|
| 5000736 | Hyd, Tee—JIC 16MJ-16MJ-16FJX | 1 |
| 4001270 | 5/8 U Bolt | 1 |
| ICO0464 | Accumulator Mount | 1 |
| WF | Washer, Flat 5/8" | 2 |
| NL | Nut, Nyloc 5/8" gr. 5 | 2 |

Hydraulic Flow Shut—Off Valve

The shut off valve is located at the rear of the tongue. It is designed to relieve the hydraulic pressure in the system to aid in hook up of the machine. To shut off the hydraulic flow, turn the lever 90° to the side (see decal).

NOTE: This shut off valve should also be turned to **OFF** position when the safety stops are in place and any service is to be performed on the machine, while in the raised position. **BE CERTAIN** to remove the safety stops before cycling the machine, or damage to the cylinders and the machine can occur.

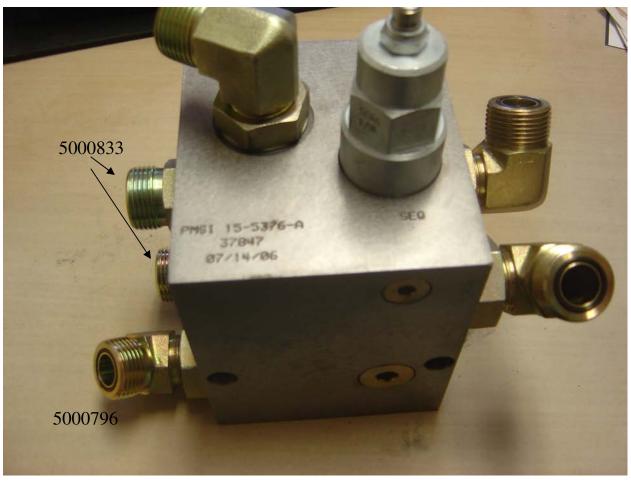




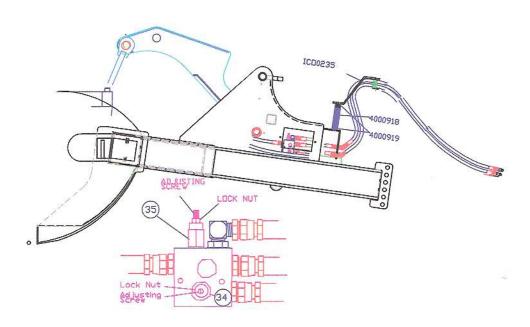








Valve Adjustment 2 - valve hydraulics



Valve Adjustment

Problem:

Push wall comes forward before gate is fully up. Answer:

- *Loosen locknut on top of valve
- *Adjust sequence valve 1/4 turn clockwise and check performance.
- *Repeat until remedied
- *Retighten locknut

Problem:

Gate comes down before push wall is fully back. Answer:

- *Adjust counterbalance valve (located on side of valve block in tongue)
- *Loosen locknut on tup of valve
- *Adjust counterbalance valve 1/4 turn counterclockwise and check performance.
- *Repeat until remedied
- *Retighten locknut.

Hydraulic Components of the 800 Series













Shown are the components of the Accumulator Valve and Actuator Arm This setup was standard on the early model 821's. Later models are not adjustable.









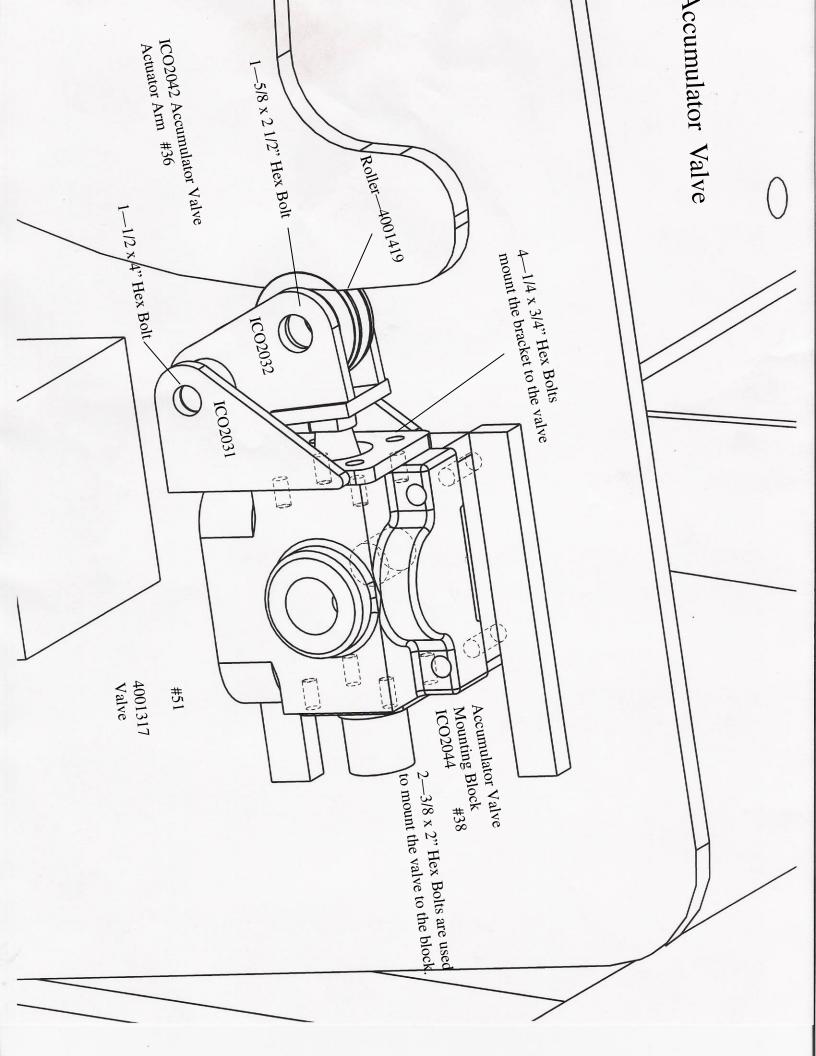


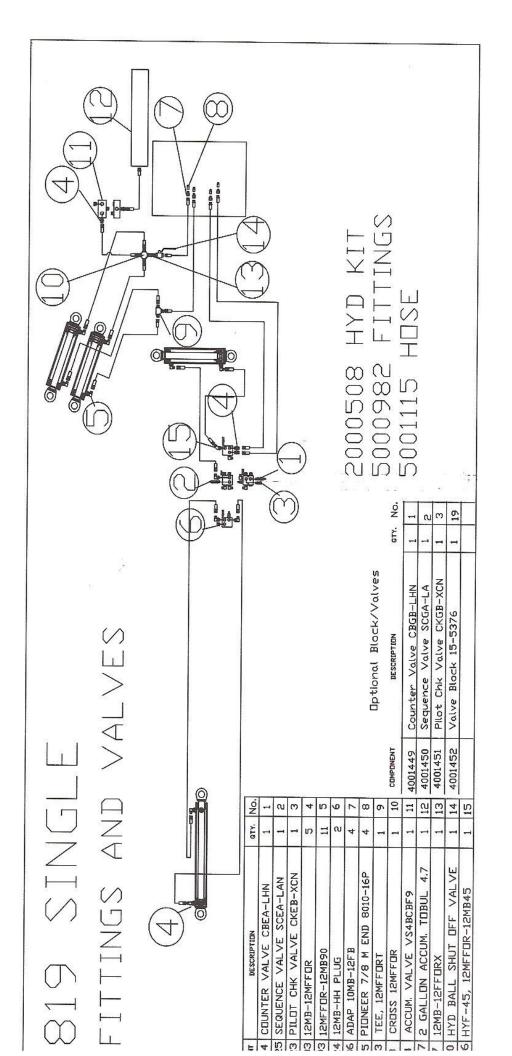


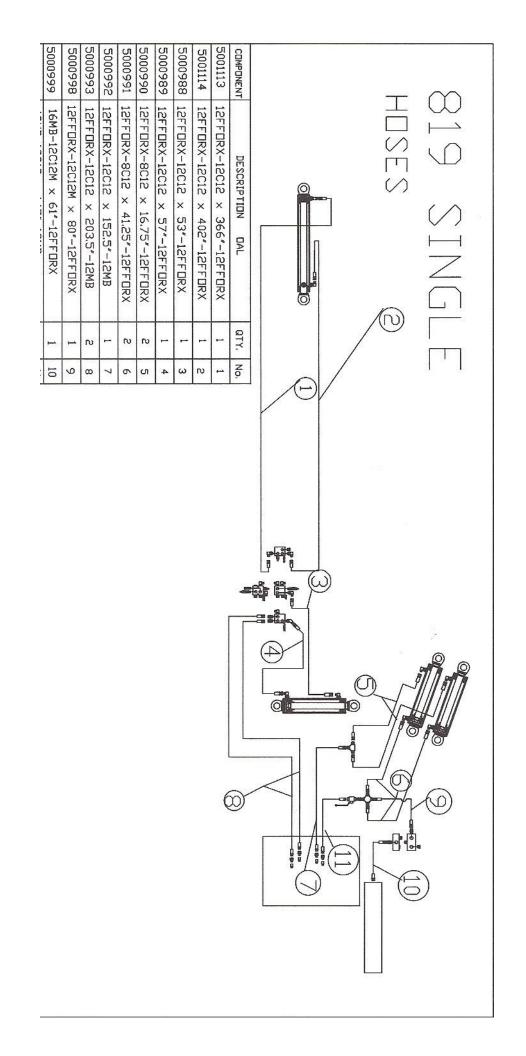
Adjustment is set at the factory to activate the accumulator when the center stinger is app. 4" above the ground. This allow for a cushioned ride while loaded. De-activation of the accumulator occurs at the same point, when lowering, to allow a smooth cut.

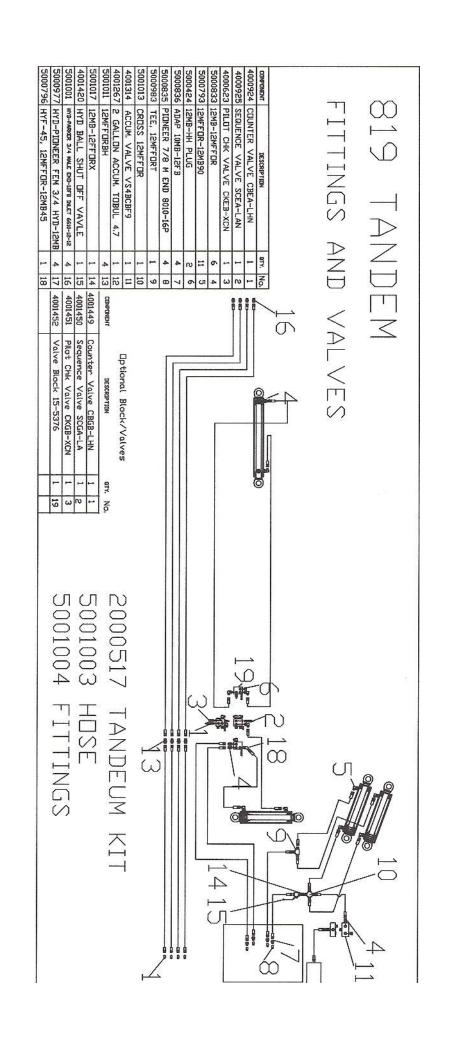
The adjustment of the actuator is up to the operator and may be adjusted to his or her preference.

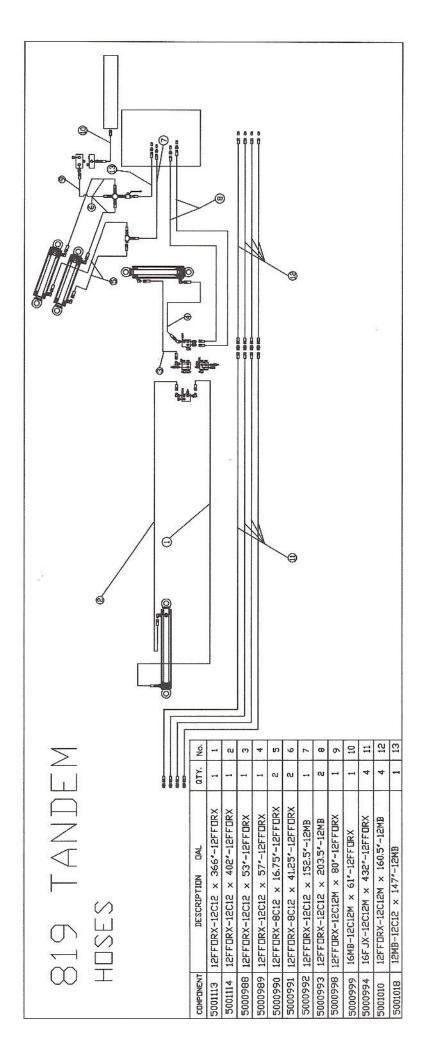
NOTE: After serial # 6297 the accumulator adjustment has been set at the factory and the adjustment slot has been removed. No adjustment should be needed.

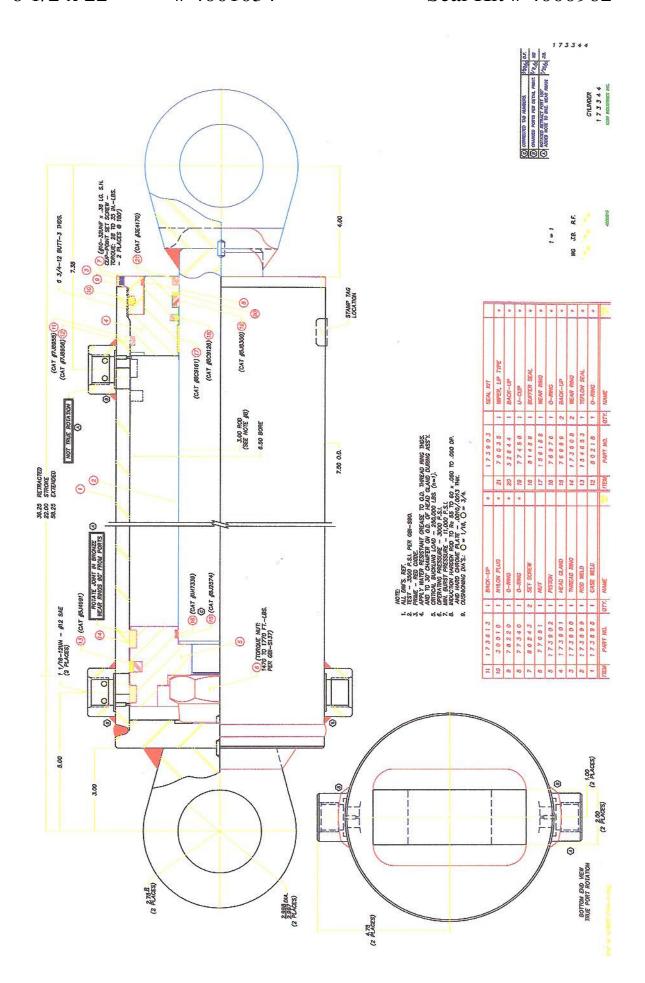






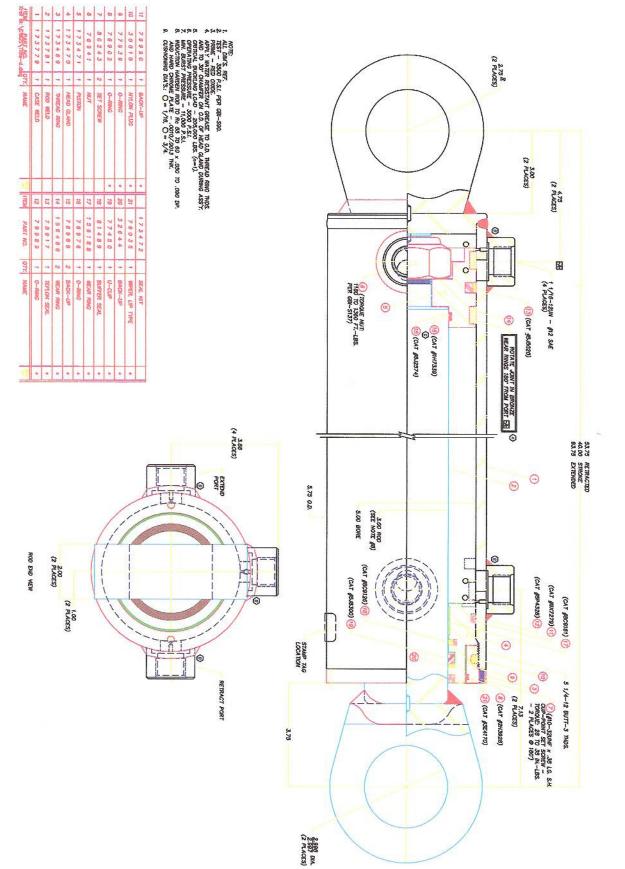




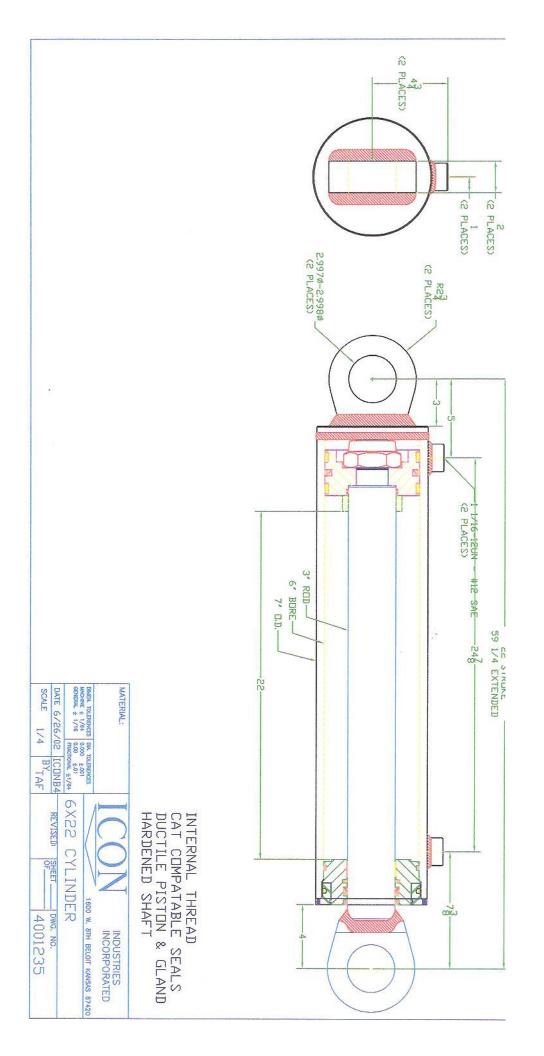


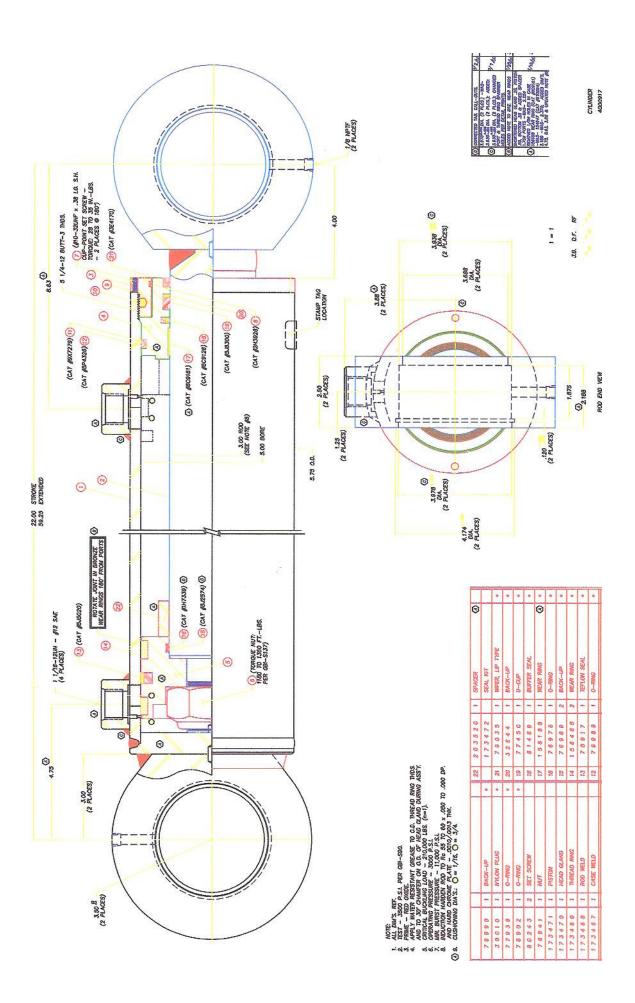
4001035

5 x 40 Eject Cyl. Seal Kit # 4000961



6 x 22





4

 5×22

ICON and CAT Crossover Part #'s For 5x22/5x40 KAYDON Cyl's

| Ref# | Description | Size | ICON# | CAT# | |
|------|-----------------|----------------|---------|---------|--|
| 11. | Back Up | 5.00ODx3/16 CS | 4000975 | 9X7279 | |
| 12. | O-Ring | 5.00ODx3/16 CS | 4000974 | 5P4326 | |
| 13. | Teflon Seal | 5.00OD | 4000973 | 5J5020 | |
| 14. | Wear Ring | 5.00ODx.63 LG | 4000972 | 660 BRZ | |
| 15. | Back Up | 3.00IDx1/8 CS | 4000971 | 8J2574 | |
| 16. | O-Ring | 3.00IDx1/8 CS | 4000970 | IH7339 | |
| 17. | Wear Ring | 3.00IDx.98 LG | 4000969 | 8C9161 | |
| 18. | Buffer Seal | 3.00ID | 4000968 | 8C9126 | |
| 19. | U-Cup | 3.00ID | 4000967 | 5J8300 | |
| 21. | Wiper, Lip Type | 3.00ID | 4000965 | 3E4170 | |

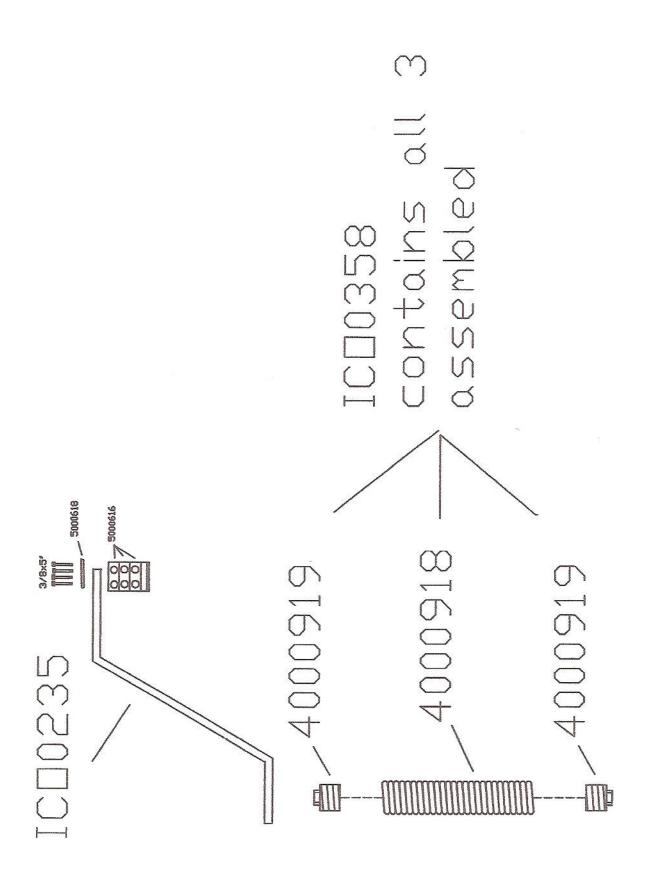
ICON and CAT Crossover Part #'s For 4 x 50 KAYDON Cyl's

| Ref# | Description | Size | ICON# | CAT# | |
|------------|-----------------|---------------------|-----------|---------|--|
| 11. | Back Up | 4.00OD | 4000995 | 2K6830 | |
| 12. | O-Ring | 4.00OD | 4000994 | 1H8128 | |
| 13. | Teflon Ring | 4.00OD | 4000993 | 5J5402 | |
| 14. | Wear Ring | $4.00 \times .63LG$ | 4000992 | 660 BRZ | |
| 15. | Q-Ring | 2.50ID | 3 4000991 | 1H5728 | |
| 16. | Back Up | 2.50ID | 4000990 | 4J9225 | |
| 17. 18. | Wear Ring | 2.50ID x .98LG | 4000989 | 8T0785 | |
| 19. | Buffer Seal | 2.50ID | 4000988 | 8C3839 | |
| 71 | U-Cup | 2.50ID | 4000987 | 5J0964 | |
| A 3 s | Wiper, Lip Type | 2.50ID | 4000985 | 3E4166 | |

| 77 | | ICON and CA | Crossover Part #'s Fo | r 6.5 x 22 KA | YDON Cvi's |
|------|-----|-----------------|-----------------------|---------------|------------|
| Ref# | | Description | Size | ICON# | CAT# |
| 11. | | Back Up | 6.38OD x 3/16CS | 4000982 | 7J8956 |
| 12. | | O-Ring | 6.38OD x 3/16CS | 4000981 | 7J8955 |
| 13. | | Teflon Seal | 6.50OD | 4000980 | 5J4991 |
| 14. | | Wear Ring | 6.500D x .63LG | 4000979 | 660BRZ |
| 15. | | Back Up | 3.00ID x 1/8CS | 4000971 | 8J2574 |
| 16. | | O-Ring | 3.00ID x 1/8CS | 4000970 | 1H7339 |
| 17. | | Wear Ring | 3.00ID x .98LG | 4000969 | 8C9161 |
| 18. | | Buffer Seal | 3.00ID | 4000968 | 8C9126 |
| 19. | 2.4 | U-Cup | 3.00ID | 4000967 | 5J8300 |
| 21. | | Wiper, Lip Type | 3.00ID | 4000965 | 3E4170 |

The hoses on all ICON Earthmovers are color coded and marked for their function and also with a + or - to distinguish between flow or return line. The tandem connectors are marked and color coded to match. The operator only needs to match colors and signs for proper hook up.









| Decai Listing For 819 Series Kit # 2000397 | Decal Listing For 819 Series | Kit # 2000597 | |
|--|------------------------------|---------------|--|
|--|------------------------------|---------------|--|

| Part # | Qty | Description |
|---------|-----|--|
| 4000931 | 5 | Warning—High Pressure |
| 4000934 | 2 | Loading Hard/Loose Material |
| 4000935 | 1 | Safety/Operation Manual |
| 4001435 | 2 | Tire Pressure/Torque (29.5 tires) |
| 4000937 | 2 | 3 Pumps Of Grease Weekly |
| 4000938 | 27 | Grease Daily |
| 4000940 | 5 | Danger Pinch/Crush |
| 4000396 | 1 | Gate Gauge (A-B-C-D) |
| 4000941 | 1 | Danger—To Prevent a Hazardous Situation |
| 4000702 | 4 | 18"Reflective Tape |
| 4000372 | 3 | Warning Moving Parts |
| 4001248 | 1 | This Machine is Designed To Be Pulled By (600) |
| 4001254 | 1 | Icon Axle Nut Wrench |
| 4000960 | 4 | ICON 4" |
| 4001309 | 2 | ICON 11 x 24 |
| 4001496 | 2 | 819 5x12 |
| 4001415 | 2 | American Flag |
| 4001306 | 1 | 819 Side Graphics |
| 4001418 | 1 | 819 Raise/Lower |
| 4001432 | 2 | Made In USA |
| 4001433 | 1 | Hyd. Shutoff Valve |
| 4000949 | 1 | Hyd. Color Codes |
| 4001445 | 3 | Safety Stops |
| 4001446 | 1 | Warning Remove Safety Stops |
| 4001447 | 1 | Caution Before Any Repair |

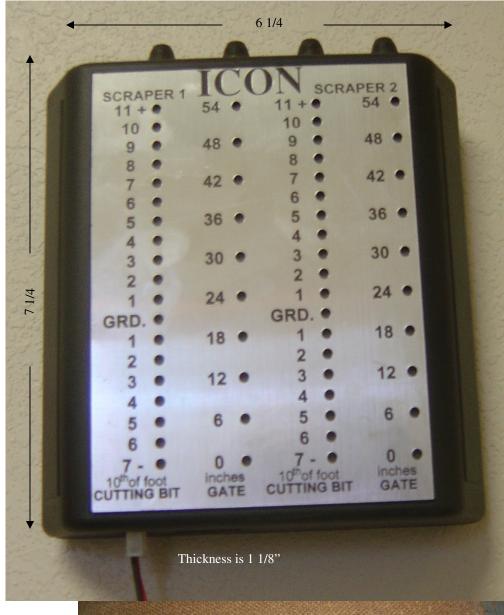


ICON In Cab Site Gauge

A three color led readout on a printed face place, informs the operator of height, in tenths of a foot above or below ground, on the cutting bit, and height in inches of the front gate.

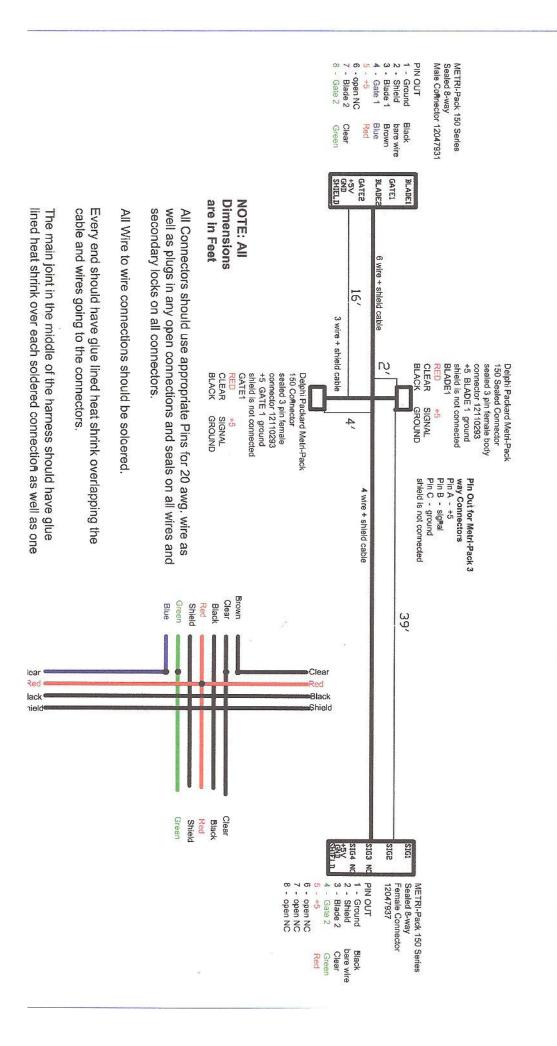
All gauges are set up for a front and rear tandem machine, or can be operated with a single machine.

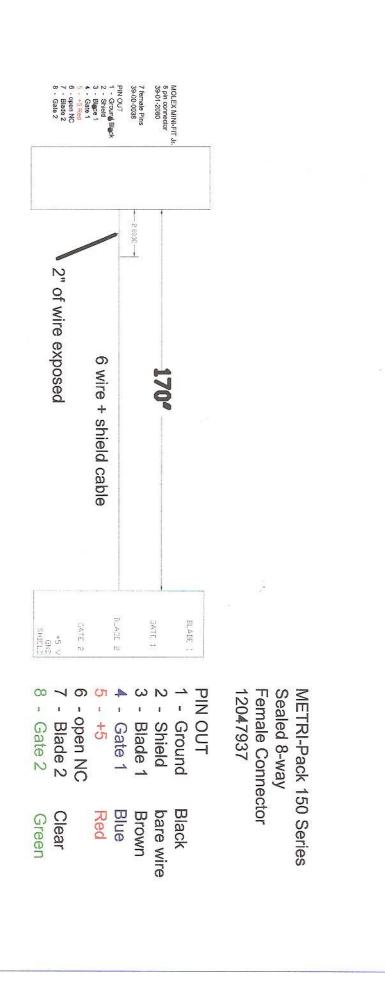
A mounting plate and velcro mounting tape is supplied, allowing the operator to mount the gauge at his/her preference. Usual mounting is directly above the hydraulic controls, providing info without turning around to see the machine(s).



Shown is the potentiometer that is installed on each machine (at the appropriate pin locations). Each wiring harness is made for a tandem setup, and plugs into each lead on the potentiometer.







DMEN. TOLERENCES DA. TOLERENCE DA. TOLERENCE DA. TO

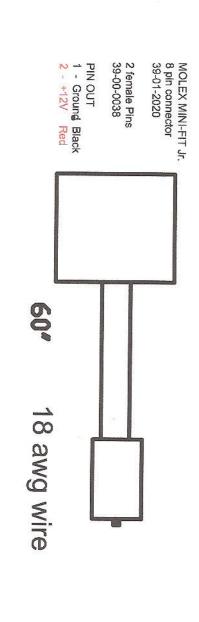
1600 W. 8TH BELOIT KANSAS 67420

INCORPORATED

DATE

ICONC16

MATERIAL:



| SCALE 1/16 | DATE | GENERAL ± 1/16 | MACHINE + 1/64 | MATERIAL: |
|------------|-----------------------|-------------------------------|---------------------------------|-------------------------|
| ВҮ | ICUNC16 | 0.00 ±.01 FRACTIONAL ±1/64 | O.000 +.001 | |
| OF 001460 | SEVICED: SHEET DWG NO | GAUGE POWER SUPPLY HARNESS | 1600 W. 8TH BELOIT KANSAS 67420 | INDUSTRIES INCORPORATED |



Equipment from Landoll Corporation is built to exacting standards ensured by ISO 9001 registration at all Landoll manufacturing facilities.

Model 819 Scraper Service and Parts Manual

Re-Order Part Number F-882-0118

LANDOLL CORPORATION

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