

I-110 PARTS MANUAL



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MODEL I-100, I-110 SCRAPER

HOW TO ORDER PARTS:

Be sure to state MODEL and SERIAL NO. of machine, PARTS NO., DESCRIPTION, and QUANTITY wanted.

Unless this is done, we cannot provide prompt service or assure shipment of the correct parts.

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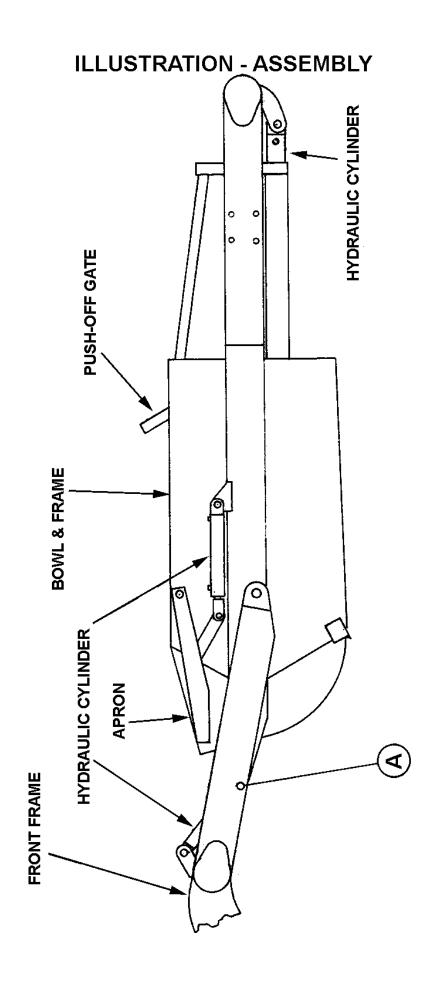
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| 3. | Gooseneck Frame Assembly |

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- 5. Bowl and Frame Assembly
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OPERATOR AND MAINTENANCE INSTRUCTIONS

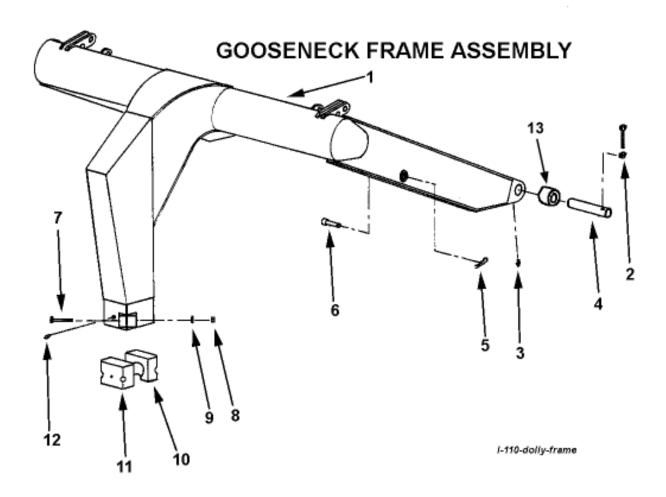
The scraper is a durable piece of equipment and with proper care will yield many years of trouble free operation. The scraper requires a power source with TWO 4-way (double acting) hydraulic control valves.

The scraper should be greased at all points where grease fittings are provided. Connect hydraulic hoses to the tractor and retract lift cylinders to remove transport lock pins (point A), then extend and retract all cylinders several times to force out any air from the hydraulic cylinders and lines. Check the oil level in the tractor hydraulic system and add to maintain the proper level. Care should be taken when adding oil or when disconnecting any oil line to keep all dirt out of the oil as dirt is a major factor in the failure of hydraulic components.

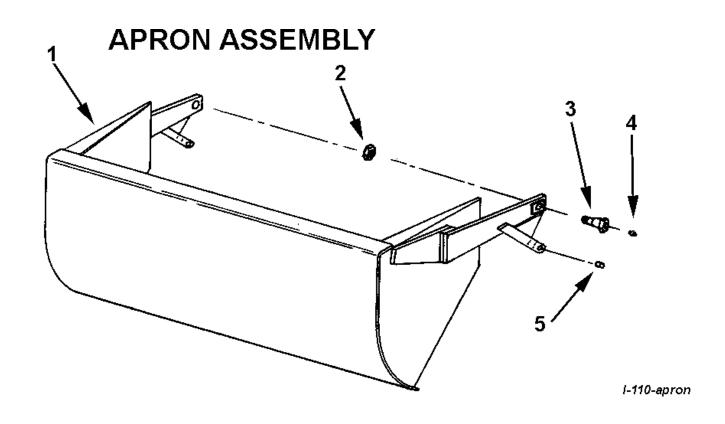
When the scraper is placed into operation, the operator will have to "feel out" the amount of depth of cut to obtain maximum loading efficiency. This is usually accomplished by taking a lesser and more uniform cut. However, some soil conditions such as loose sand may require a "pumping action" obtained by taking successive deep cuts and lifting out of cut as the tractor begins to lose power or traction.

- 1. After 10 hours work, all bolts should be checked and tightened if necessary.
- 2. Every 10 hours all grease fittings should be lubricated.
- 3. After 50 hours work, all bolts should be rechecked and tightened if necessary. Check wheel bearings and adjust if necessary.
- 4. After 300 hours work, clean and repack wheel bearings and replace, if necessary, cutting edges, worn pins, etc.

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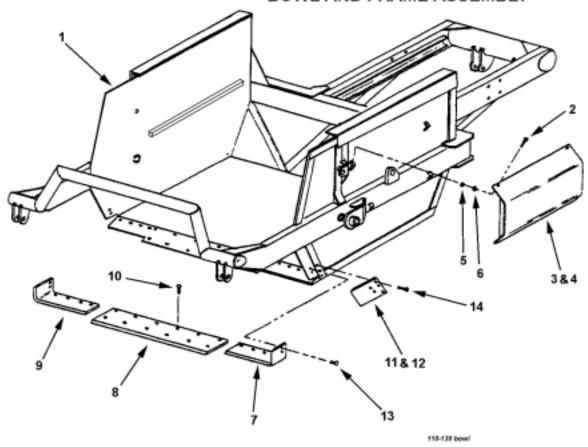


| KEY NO. | PART NO. | DESCRIPTION |
|---------|----------|---|
| 1 | A10151A | Gooseneck frame, s/n 17816 & up |
| 2 | | Bolt, 1/2" NC x 3-1/2" w/ nut |
| 3 | | Grease zerk, straight |
| 4 | A10152A | Pin, Frame attachment, 2" OD x 8-1/16" Long |
| 5 | | Hair pin |
| 6 | A10153 | Pin, Transport lock |
| 7 | | Bolt, 3/4" x 4-1/2" gr. 8 |
| 8 | | Nut, 5/8" NC |
| 9 | | Lockwasher, 5/8" |
| 10 | A10004A | Cast socket half, rear |
| 11 | A10005A | Cast socket half, front w/ zerk hole |
| 12 | A2006 | Grease zerk, long shank |
| 13 ** | A14039 | Bushing, 2.375 OD x 2.00 ID x 2" Long, Grease Passage |
| | | For Serial Number 20319 and above. (9/22/00) |
| | | |

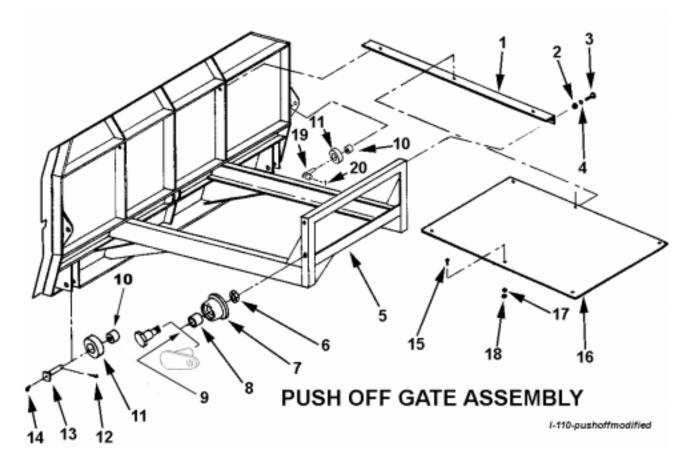


| KEY NO. | PART NO. | DESCRIPTION |
|---------|----------|---|
| 1 | A10154 | Apron |
| 2 | | Self lock nut, 1-1/4" NF |
| 3 | A6010 | Shoulder pin, 1-5/8" to 1-1/4" w/ zerk s/n up 20119 |
| | | Pin, 1-1/2" x 5-1/2" s/n 20120 & up |
| 4 | | Grease fitting |
| 5 | A10155 | Bushing, 1-1/2" OD x 1" ID x 1-1/8" |

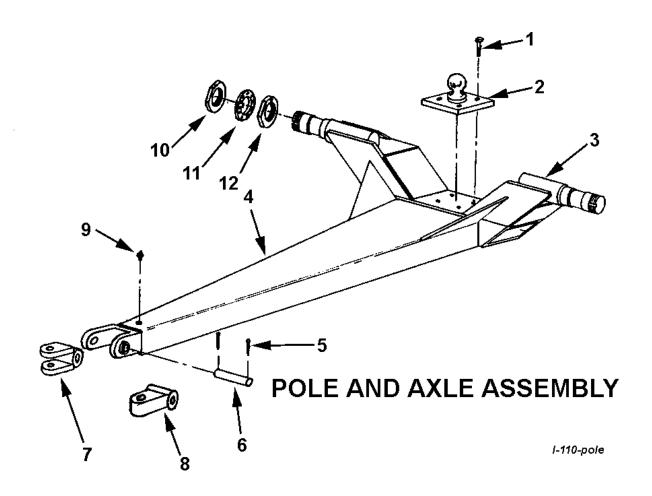
BOWL AND FRAME ASSEMBLY



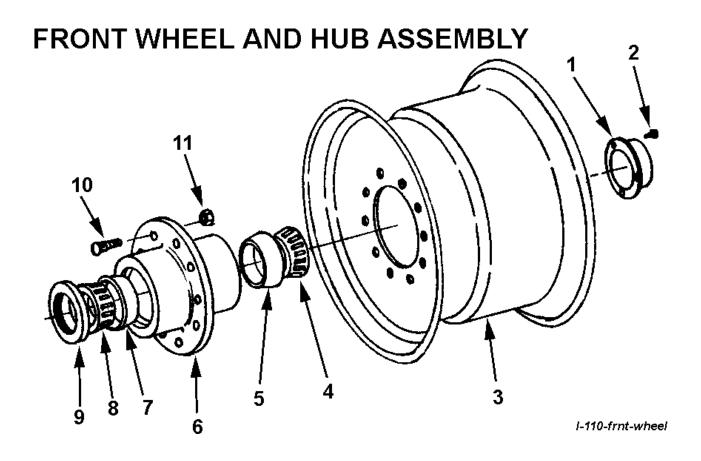
| KEY NO. | PART NO. | DESCRIPTION |
|------------|------------------|---|
| 1 | A10156A | Bowl and Frame I-110, s/n 17816 & up |
| 2 | 6835 | Bolt, 3/8" NC x 1" |
| 3 | A10157 | Left hand cylinder guard |
| 4 | A10158 | Right hand cylinder guard |
| 5 | 8078 | 3/8" Lockwasher |
| 6 | 7450 | Nut, 3/8" NC |
| 7 | A10011A | Left cutting edge, 8" |
| 8 | A10012A | Center cutting edge, 12" x 54" |
| 9 | A10010A | Right cutting edge, 8" |
| 10 | PB8P-NC-063-0250 | Plow bolt, 5/8" NC x 2-1/2" (12 req'd) |
| 11 | A14031A | (Optional) Left Bank Shaver Side Blade (s/n 17582 +) |
| 12 | A14032A | (Optional) Right Bank Shaver Side Blade (s/n 17582 +) |
| 13 | PB8P-NC-063-0200 | Plow bolt, 5/8" NC x 2" (6 req'd / blade) |
| 14 | PB8P-NC-063-0250 | Plow Bolt, 5/8" NC x 2-1/2" (7 req'd / blade) |
| 10, 13, 14 | 7530 | Nuts for Plow Bolts: 5/8" NC (25 reg'd total) |



| KEY NO. | PART NO. | DESCRIPTION |
|---------|----------------------|--|
| 1 | A10159 | Brace, R. H. & L. H. same |
| 2 | | Nut, 3/4" NC |
| 3 | | Bolt, 3/4" NC x 1-1/2" lg. |
| 4 | | Lockwasher, 3/4" |
| 5 | A10160 | Push off gate |
| 6 | | Jam nut, 1-1/4" NF |
| 7 | A123306 sn 20210 + | Gate roller, rear, with A123307 bushing |
| | A10161 upto sn 20209 | • |
| 8 | A123307sn 20210 + | Bushing, 1-5/8" OD x 1-1/4"ID x 1-1/2" lg |
| | A10162 upto sn 20209 | Bushing, 2" OD x 1-5/8" ID x 1-7/16" |
| 9 | A123305 sn 20210 + | , |
| | | Shoulder pin, 1-5/8" to 1-1/4" w/ zerk in thd. end |
| 10 | A10163 | Bushing, 1-3/4" OD x 1-1/4" ID x 2-3/8" |
| 11 | A10164 | Gate roller, front, 4-1/4" OD |
| 12 | | Cotter pin, 1/4" x 2" lg. |
| 13 | A6007A | Pin, 1-1/4" x 4-1/8" lg. |
| 14 | | Grease zerk, 90° x 1/8" NPT |
| 15 | | Bolt, 1/4" x 1" NC |
| 16 | A10171 | Dirt shield |
| 17 | | Nut, 1/4" NC |
| 18 | | Lockwasher, 1/4" |
| 19 | A123288 | Pin, 1-1/4" dia. x3-1/4" lg. tab head w/ zerk |
| 20 | | Bolt, 5/8" x 1-1/4" NC |



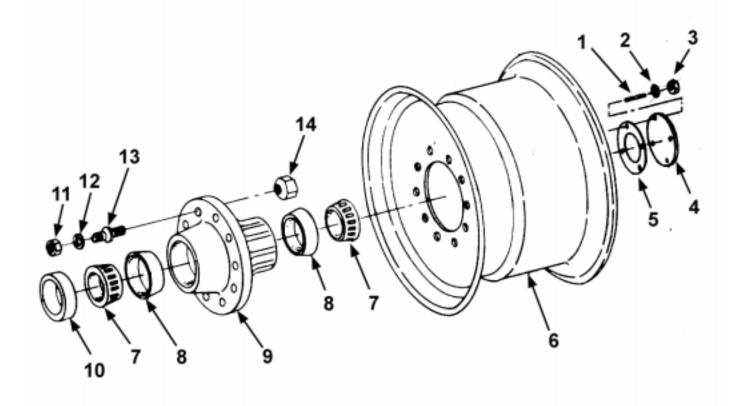
| KEY NO. | PART NO. | DESCRIPTION |
|---------|----------|---------------------------------------|
| 1 | | Bolt, 3/4" NC x 2-1/2" lg., Gd. 5 |
| 2 | A10035 | Ball swivel |
| 3 | A14021 | Spindle Only Weldable, s/n 17844 & up |
| 4 | A10181 | Pole, s/n 17844 & up |
| 5 | | Cotter pin, 1/4" x 2-1/2" lg. |
| 6 | A10034 | Pin, 1-1/2" x 6-1/4" lg. |
| 7 | A10033 | Double lip clevis |
| 8 | A10033A | Single lip hitch |
| 9 | | Grease fitting |
| 10 | A10048 | Spindle nut |
| 11 | A10049A | Lock collar |
| 12 | A10172 | Nut w/ Lock pin |



| KEY NO. | PART NO. | DESCRIPTION |
|---------|----------|---------------------------|
| 1 | A14004 | Hub cap |
| 2 | | Bolt, 5/16 NC x 5/8 lg. |
| 3 | A10170 | Wheel, 14 x 16.1 |
| 4 | A14015 | Bearing cone (Timken 644) |
| 5 | A14014 | Bearing cup (Timken 632) |
| 6 | A14010 | Hub |
| 7 | A14013 | Bearing cup (Timken 742) |
| 8 | A14012 | Bearing cone (Timken 749) |
| 9 | A14011 | Grease seal (CR 42624) |
| 10 | A10176 | Stud |
| 11 | A10046 | Lug nut• |

I-100 & I-110 Front Wheel & Hub Assembly Used on Serial Number up to 15845 (7/13/80)

I-100 & I-110-Frt Hub-1980.tif

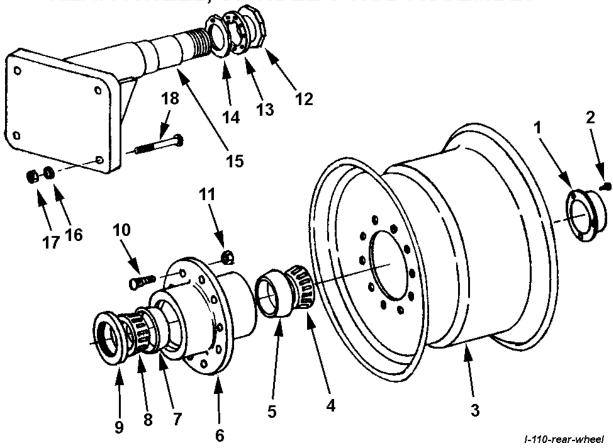


Model I-100 & early I-110

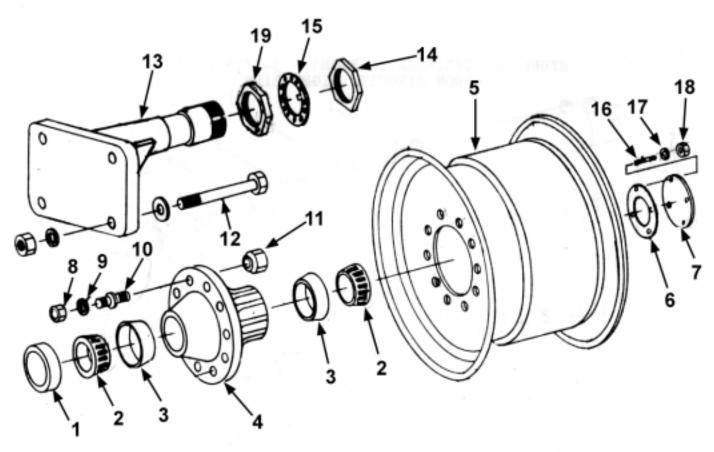
Recognized by Casted Hub & Dual Threaded Studs

| | J | 3 |
|---------|----------|--|
| Key No. | Part No. | Description |
| 1 | | Stud Bolt, 5/16 x 5/8 NC |
| 2 | | Lock Washer |
| 3 | | Nut |
| 4 | A10041 | Hub Cap |
| 5 | A10040 | Gasket (Silicone Gel can be substituted) |
| 6 | A10170 | Wheel, 11" x 16" Drop Center |
| 7 | A10014 | Bear Cone (Timken 5557) |
| 8 | A10015 | Bear Cup (Timken 5520) |
| 9 | A10016 | Hub Less Bearings & Race |
| 10 | A10013 | Grease Seal, (CR 35062) |
| 11 | | Nut, 3/4" NF |
| 12 | A10042 | Bushing |
| 13 | A10043 | Lug, Left Hand Threads |
| | A10044 | Lug, Right Hand Threads |
| 14 | A10045 | Lug Nut, Left Hand Threads |
| | A10046 | Lug Nut, Right Hand Threads |
| | | |

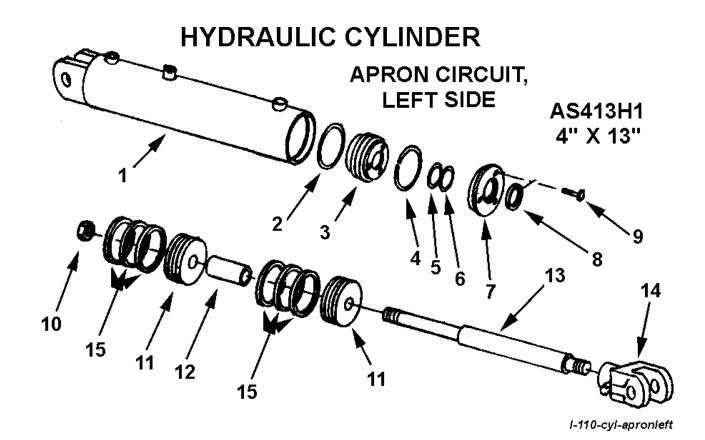
REAR WHEEL, SPINDLE & HUB ASSEMBLY



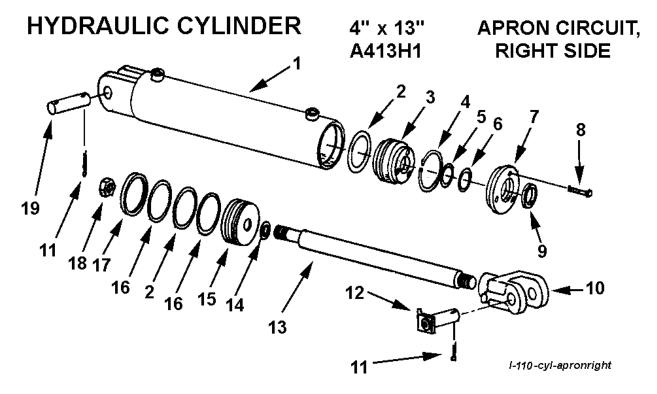
| KEY NO. | PART NO. | DESCRIPTION |
|---------|----------|----------------------------|
| 1 | A14004 | Hub cap |
| 2 | | Bolt, 5/16 NC x 5/8 lg. |
| 3 | A10039 | Wheel, 16 x 26 Drop Center |
| 4 | A14015 | Bearing cone (Timken 644) |
| 5 | A14014 | Bearing cup (Timken 632) |
| 6 | A14010 | Hub |
| 7 | A14013 | Bearing cup (Timken 742) |
| 8 | A14012 | Bearing cone (Timken 749) |
| 9 | A14011 | Grease seal (CR 42624) |
| 10 | A10176 | Stud |
| 11 | A10046 | Lug nut |
| 12 | A10048 | Spindle nut |
| 13 | A10172 | Lock collar |
| 14 | A14037 | Nut w/ lock pin |
| 15 | | Spindle |
| 16 | | Lockwasher, 1" |
| 17 | | Nut, 1" NC |
| 18 | | Bolt, 1" NC x 6-1/2" lg. |
| | | _ |



| I-100 | & I-110 Sc | raper for Serial Number 15845 and Below 7/13/80 |
|-------|------------|---|
| Key. | Part # | Description |
| 1. | A10013 | Grease Seal (CR 35062) |
| 2. | A10014 | Bearing Cone (Timken 5557) |
| 3. | A10015 | Bearing Cup (Timken 5520) |
| 4. | A10016 | Hub Less Bearings |
| 5. | A10039 | Wheel, 16" x 26" Drop Center |
| 6. | A10040 | Gasket (No longer Available) use liquid gasket material |
| 7. | A10041 | Hub Cap, 4 holes plate |
| 8.* | | Nut, 3/4" NF |
| 9.* | A10042 | Bushing |
| 10.* | A10043 | Lug, Left Hand Threads |
| 10.* | A10044 | Lug, Right Hand Threads |
| 11. | A10045 | Lug Nut, Left Hand Threads |
| 11. | A10046 | Lug Nut, Right Hand Threads |
| 12. | | Bolt, 1"NC x 6-1/2" Lg. w/Nut & Lockwasher |
| 13. | A10169 | Spindle |
| 14. | A10048 | Spindle Nut |
| 15. | A10049A | Lock Collar |
| 16. | | Stud Bolt, 1/2" NF |
| 17. | | Lockwasher, 1/2" |
| 18. | | Nut, 1/2" NF |
| 19. | A10172 | Nut, with Lock Pin |



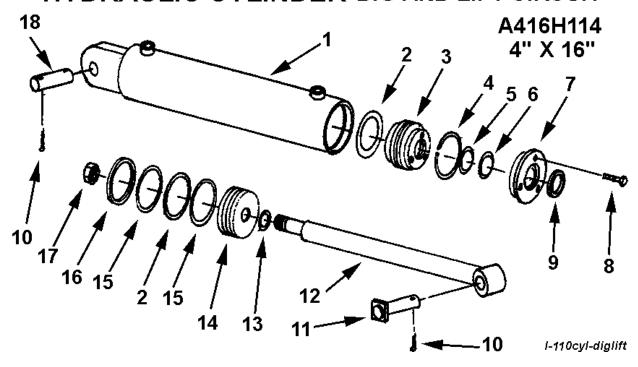
| KEY NO. | PART NO. | DESCRIPTION |
|---------|----------|--------------------------|
| 1 | A175H13 | Barrel |
| 2 | A300H06 | O-ring, 4" OD x 3/16" |
| 3 | A300H11 | Head gland |
| 4 | A300H12 | Retainer ring |
| 5 | A22H15 | O-ring, 1-1/2" ID |
| 6 | A22H15A | Backup washer, 1-1/2" ID |
| 7 | A300H13 | Gland cap |
| 8 | A22H17 | Wiper seal, 1-1/2" ID |
| 9 | A22H18 | Capscrew, 1/4" NC x 1" |
| 10 | A300H03 | Piston nut |
| 11 | A450H15 | Piston, 4" |
| 12 | A130H12 | Piston spacer |
| 13 | A175H14 | Shaft, 1-1/2" diameter |
| 14 | A12H03 | Clevis end |
| 15 | A300H04 | Cast iron rings, 4" OD |
| | A130H23 | Packing kit containing: |
| | | 6 - A300H04 |
| | | 1 - A22H15A |



| KFY NO | PART NO. | DESCRIPTION |
|--------|----------|-----------------------------------|
| 1 | A175H01 | Barrel Assembly |
| 2 | A300H06 | O-ring seal, 4" OD x 3/16" |
| 3 | A300H11 | Head gland |
| 4 | A300H12 | Retainer ring |
| 5 | A22H15 | O-ring, 1-1/2" x 1/8" |
| 6 | A22H15A | Backup washer |
| 7 | A300H13 | Head cap |
| 8 | A22H18 | Capscrew, 1/4 NC x 1" |
| 9 | A22H17 | Wiper seal, 1-1/2" ID |
| 10 | A12H03 | Clevis end |
| 11 | | Cotter pin, 3/16" x 1-1/2" |
| 12 | A10167 | Pin, 1" x 3-1/16" |
| 13 | A175H02 | Shaft, 1-1/2" diameter |
| 14 | A45H05 | Piston gasket, 1" |
| 15 | A300H07 | Piston, 4" dia. |
| 16 | A300H05 | Back up washer, 4" OD |
| 17 | A300H04 | Cast iron ring, 4" OD |
| 18 | A300H03 | Piston nut, 1" NF |
| 19 | A1217 | Pin, 1" x 3-1/2" |
| | A300H14B | Packing kit containing: |
| | | 1 - A300H04 |
| | | 1 - A22H15A 2 - A22H06 1 - A22H17 |
| | | |

1 - A45H05

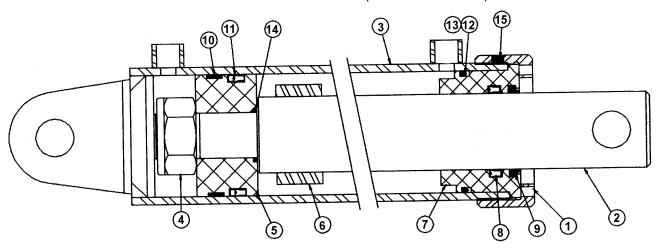
HYDRAULIC CYLINDER DIG AND LIFT CIRCUIT



| KEY NO. | PART NO. | | | |
|---------|----------|-------------------------------------|--|--|
| 1 | A45H04 | Barrel Assembly | | |
| 2 | A300H06 | O-ring, 4" OD x 3/16" | | |
| 3 | A300H11 | Head gland | | |
| 4 | A300H12 | Retainer ring | | |
| 5 | A22H15 | O-ring, 1-1/2" ID x 1/8" | | |
| 6 | A22H15A | Backup washer | | |
| 7 | A300H13 | Head cap | | |
| 8 | A22H18 | Capscrew, 1/4" x 1" | | |
| 9 | A22H17 | Wiper seal, 1-1/2" ID | | |
| 10 | | Cotter pin, 3/16" x 1-1/2" | | |
| 11 | A6007A | Pin, 1-1/4" X 4-1/8" w/ square head | | |
| 12 | A45H03 | Shaft, 1-1/2" diameter | | |
| 13 | A45H05 | Piston gasket, 1" ID | | |
| 14 | A300H07 | Piston, 4" | | |
| 15 | A300H05 | Backup washer, 4" OD | | |
| 16 | A300H04 | Cast iron ring, 4" OD | | |
| 17 | A300H03 | • | | |
| 18 | A45003 | Pin, 1-1/8" x 3-1/4" | | |
| | A300H14B | Packing kit containing: | | |
| | | 1 - A300H04 | | |
| | | 1 - A22H15A 2 - A300H06 1 - A22H17 | | |
| | | 1 - A45H05 | | |

I-110 PUSH GATE CYLINDER ASSEMBLY PART NO. A454H114B

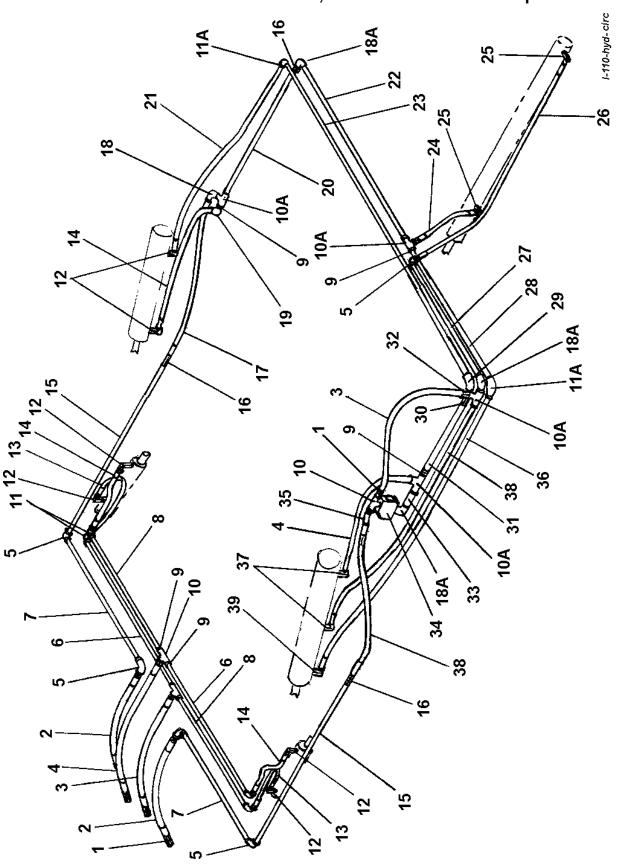
4" BORE X 54" STROKE - MODEL I-110 (SERIAL NO. 17661 & UP)



I-110-cyl-push

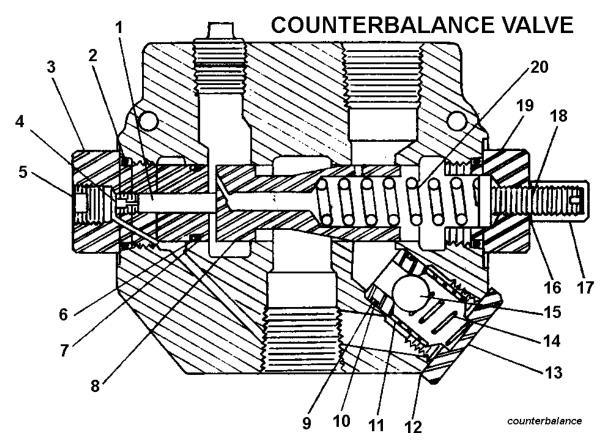
| KEY NO. | QTY. | PART NO. | DESCRIPTION |
|---------|------|----------|-------------------------------------|
| 1 | 1 | A101H103 | Collar |
| 2 | 1 | A101H98 | 2 1/2" Rod |
| 3 | 1 | A101H97 | Barrel weldment |
| 4 | 1 | | Lock nut (1 1/2" - 12) |
| 5 | 1 | A101H96 | Piston |
| 6 | 1 | A101H99 | Spacer |
| 7 | 1 | A101H102 | Head |
| 8 | 1 | A140H07 | Rod seal |
| 9 | 1 | A140H08 | Rod wiper |
| 10 | 1 | A101H100 | Wear ring |
| 11 | 1 | A101H101 | Piston seal |
| 12 | 1 | A200H06 | O-ring |
| 13 | 1 | A300H05 | Backup ring |
| 14 | 1 | A22H15 | O-ring |
| 15 | 1 | | Nylon tip set screw (3/8" NC x 3/8) |
| 16 | 1 | A101H30A | Seal kit (Items 8-14) |

HYDRAULIC CIRCUIT MODEL I-110 SCRAPER, serial no. 16520 and up



PARTS LIST - HYDRAULIC CIRCUIT

| KFY NO. | NO. REQ'D | PART NO. | DESCRIPTION |
|----------|-----------|-----------------|--|
| 1 | 5 | A101H72 | Swivel adapter, str. 3/4 male x female |
| 2 | 2 | A101H32 | Hose, 3/4 x 21 lg. |
| 3 | 2 | A101H46 | Hose, 3/4 x 24-1/2 lg. |
| 4 | 2 | A101H31A | Hose, 3/4 x 27 lg. |
| 5 | 5 | 71101110171 | Elbow, 90° x 3/4 NPT, Cast |
| 6 | 2 | | Pipe, 1/2 x 38-1/4 lg. |
| 7 | 2 | | Pipe, 3/4 x 48 lg. |
| 8 | 2 | | Pipe, 1/2 x 35-3/4 lg. |
| 9 | 7 | | Pipe bushing, 1/2 NPT x 3/4 NPT |
| 10 | 3 | | Pipe tee, 3/4 NPT, Cast |
| 10A | 4 | | Pipe tee, 3/4 NPT, Steel |
| 11 | 4 | | Elbow, 90°, 1/2 NPT, Cast |
| 11A | 2 | | Elbow, 90°, 1/2 NPT, Steel |
| 12 | 6 | A45H07 | Swivel adapter, 90°, 3/8 male x 1/2 female |
| 13 | 2 | A60H01A | • |
| | 3 | A45H06 | Hose, 1/2 x 18 lg. |
| 14 15 | | А43ПОО | Hose, 1/2 x 24 lg. |
| 15 14 | 2 | A 1 O 1 L 1 2 E | Pipe, 3/4 x 78-1/4 lg. |
| 16 | | A101H35 | Swivel adapter, str. 3/4 female x female |
| 17 | 1 | A101H36 | Hose, 3/4 x 33 lg. |
| 18 | 1 | | Street elbow, 90°, 3/4 NPT, Cast |
| 18A | 3 | | Street elbow, 90°, 3/4 NPT, Steel |
| 19 | 1 | | Street elbow, 45°, 1/2 NPT, Cast |
| 20 | 1 | A 4 O 4 L 1 O O | Pipe, 3/4 x 28 lg. |
| 21 | 1 | A101H83 | Hose, 1/2 x 44 lg. |
| 22 | 1 | | Pipe, 3/4 x 53 lg. |
| 23 | 1 | | Pipe, 1/2 x 97-7/8 lg. |
| 24 | 1 | A101H37 | Hose, 3/4 x 18 lg. |
| 25 | 2 | A101H39 | Swivel adapter, 90°, 1/2 male x 3/4 female |
| 26 | 1 | A101H38A | • |
| 27 | 1 | | Pipe, 3/4 x 48 lg. |
| 28 | 1 | | Pipe, 1/2 x 44 lg. |
| 29 | 1 | A101H73 | Street elbow, 90°, 1/2 NPT, Steel |
| 30 | 1 | A101H74 | Swivel adapter, str. 1/2 female x female |
| 31 | 1 | | Pipe, 1/2 x 11-3/4 lg. |
| 32 | 1 | A101H75 | Check valve |
| 33 | 1 | | Pipe, 3/4 x 5-1/2 lg. |
| 34 | 1 | A101H48 | Counterbalance valve |
| 35 | 1 | | Street elbow, 45°, 3/4 NPT, Cast |
| 36 | 1 | A101H82 | Hose, 1/2 x 55 lg. |
| 37 | 2 | A101H77 | Swivel adapter, 90°m 3/4 male x female |
| 38 | 2 | A101H42 | Hose, 3/4 x 42 lg. |
| 39 | 1 | A400H02 | Swivel adapter, 90°, 1/2 male x female |



Serial no. 14656 and up

| KEY NO. | PART NO. | DESCRIPTION |
|---------|----------|----------------------------|
| 1 | A101H49 | Piston |
| 2 | A101H50 | O-ring |
| 3 | A101H51 | External pilot plug |
| 4 | A101H52 | Orifice |
| 5 | A101H53 | Plug |
| 6 | A101H54 | O-ring |
| 7 | A101H55 | Backup washer |
| *8 | A101H56 | Metering spool |
| 9 | A101H57 | Backup washer |
| 10 | A101H58 | O-ring |
| 11 | A101H59 | Check seat |
| 12 | A101H60 | Aluminum washer |
| 13 | A101H61 | Check plug |
| 14 | A101H62 | Check spring |
| 15 | A101H63 | Check ball |
| 16 | A101H64 | Aluminum washer |
| 17 | A101H65 | Acorn nut |
| 18 | A101H66 | Adjusting screw |
| 19 | A101H67 | Adjusting plug - RD1075 CB |
| 20 | A101H68 | Metering spring |
| * | A101H71 | Valve body |
| | | |

^{*} NOT SOLD SEPARATELY

COUNTERBALANCE VALVE

PURPOSE of the counterbalance valve is to prevent the front gate from closing before the rear pushgate is fully retracted when the scraper is empty. This enables the operator to start the next cut without having to reopen the gate from the closed position.

INSTRUCTIONS for establishing counterbalance valve setting:

When properly adjusted, the front gate will close 40% from full open position (26 ½" from bottom of gate to cutting edge) and hold at that position until the rear pushgate is fully retracted. If the front gate is closing more than 40%, loosen the lock nut under the hex socket head screw and turn the screw clockwise until the front gate holds at that position. Turn an additional ¼ turn clockwise, then tighten the lock nut. DO NOT turn the adjusting screw more than is necessary to hold the front gate at 40% open.

Limited Warranty Statement

Ashland Industries Inc. warrants each new product to be free from defects in material and workmanship. This warranty is applicable only for the normal service life expectancy of the product or components, not to exceed six consecutive months from the date of delivery of the new Ashland Industries product to the original purchaser, or the date the product is first put into service via a rental agreement or other means, whichever occurs first.

Genuine Ashland Industries Inc. replacement parts and components will be warranted for 30 days from date of purchase, or the remainder of the original equipment warranty period, whichever is longer.

Under no circumstances will it cover any merchandise or components thereof, which in the opinion of the company, has been subjected to misuse, unauthorized modification, alterations, an accident or if repairs have been made with parts other than those obtained through Ashland Industries Inc.

Ashland Industries Inc. in no way warrants Tires since these items are warranted separately by their respective manufacturer. Please call Ashland Industries Inc. to receive phone numbers of tire suppliers.

Ashland Industries Inc. in no way warrants wearable items such as cutting edges, front dolly wheel balls, socket halves.

Our obligation under this warranty shall be limited to repairing or replacing, free of charge to the original purchaser, any part that, in our judgement, shall show evidence of such defect, provided further that such part shall be returned within 30 days from the date of failure to Ashland Industries Inc. routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid. Upon warranty approval proper credits will be reimbursed for transportation.

This warranty shall not be interpreted to render Ashland Industries Inc. liable for injury or damages of any kind or nature to person or property. This warranty does not extend to the loss revenue, extra labor cost associated with downtime, substitute machinery, rental or for any other reason.

Except as set forth above, Ashland Industries Inc. shall have no obligation or liability of any kind on account of any of its equipment and shall not be liable for special or consequential damages. Ashland Industries Inc. make no other warranty, expressed or implied, and, specifically, Ashland Industries Inc. disclaims any implied warrant or merchantability or fitness for a particular purpose. Some states or provinces do not permit limitations or exclusions of implied warranties or incidental or consequential damages, so the limitations or exclusion in this warranty may not apply.

This warranty is subject to any existing conditions of supply which may direct affect our ability to obtain materials or manufacture replacement parts.

Ashland Industries Inc. reserves the right to make improvements in design or changes in specifications at any time, without incurring any obligation to owners of units previously sold

No one is authorized to alter, Modify or enlarge this warranty nor the exclusion, limitations and reservations.

Ashland Industries Inc. Warranty Department