



MANDAKO



**3-PLEX
LAND ROLLER
10-20 SERIES (2000-2010)**

PARTS MANUAL

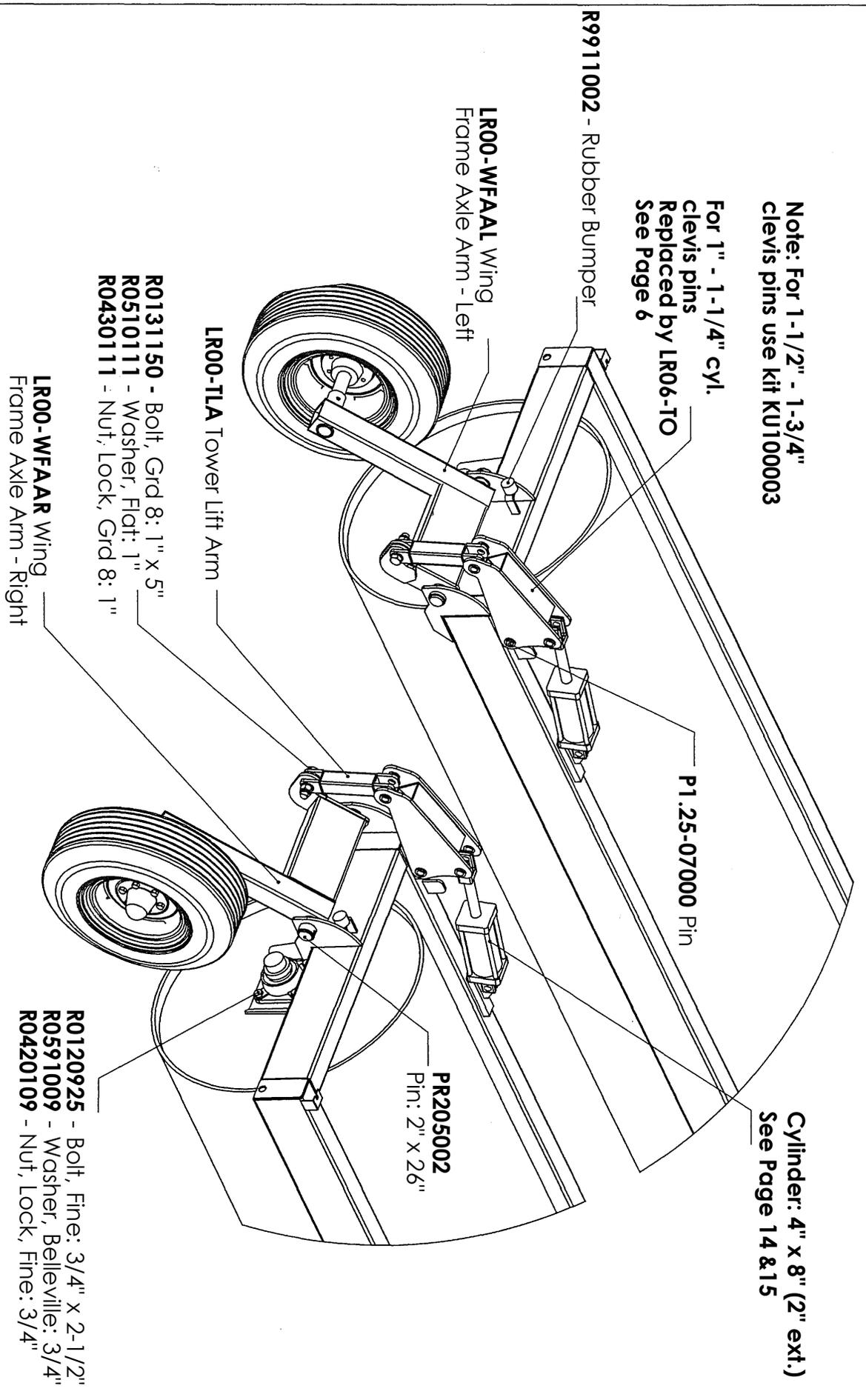
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Note: For 1-1/2" - 1-3/4"
clevis pins use kit KU100003

For 1" - 1-1/4" cyl.
clevis pins
Replaced by LR06-TO
See Page 6

Cylinder: 4" x 8" (2" ext.)
See Page 14 & 15



R9911002 - Rubber Bumper

LR00-WFAAL Wing
Frame Axle Arm - Left

LR00-TLA Tower Lift Arm

LR00-WFAAR Wing
Frame Axle Arm - Right

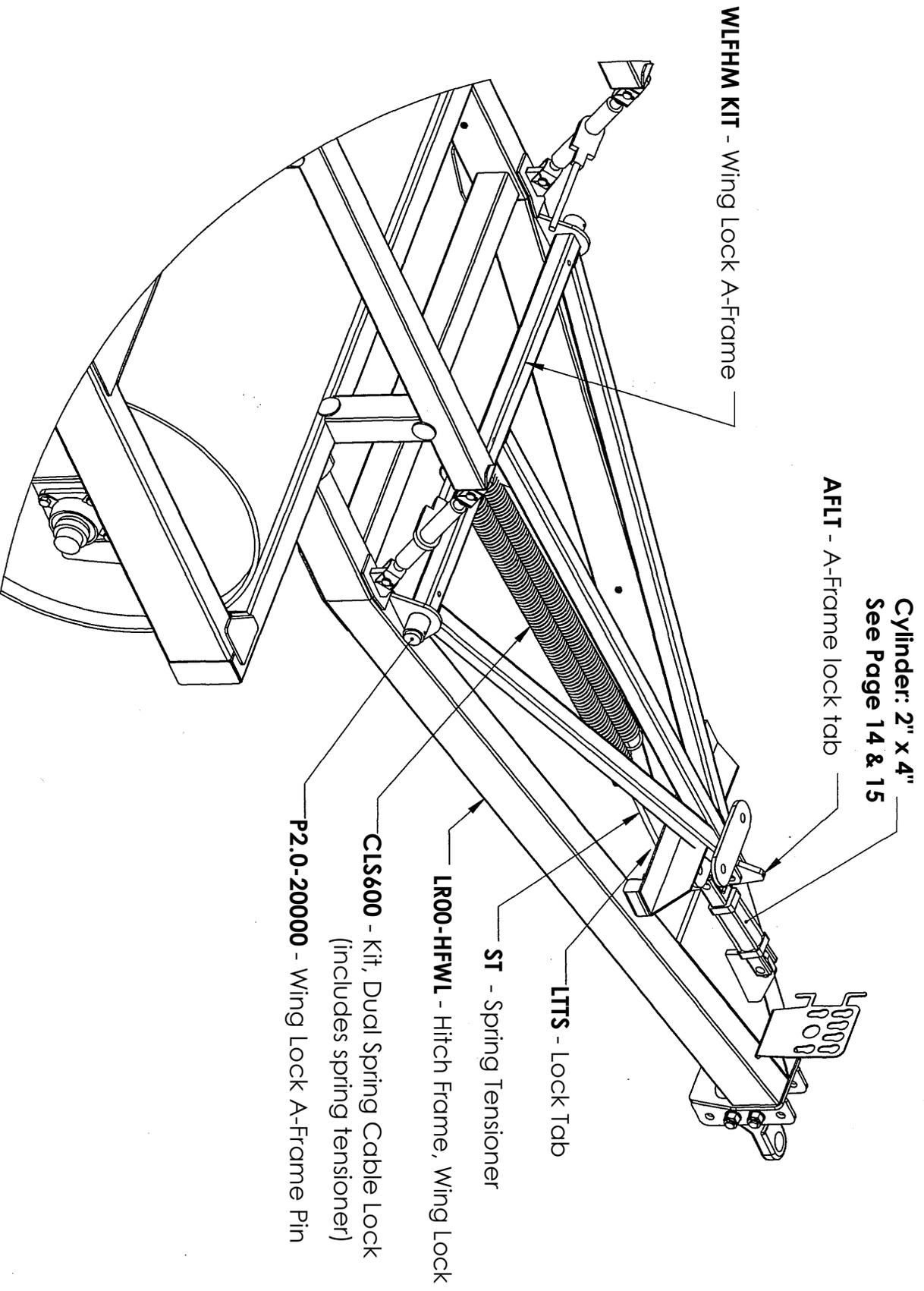
P1.25-07000 Pin

PR205002
Pin: 2" x 2.6"

R0131150 - Bolt, Grd 8: 1" x 5"
R0510111 - Washer, Flat: 1"
R0430111 - Nut, Lock, Grd 8: 1"

R0120925 - Bolt, Fine: 3/4" x 2-1/2"
R0591009 - Washer, Belleville: 3/4"
R0420109 - Nut, Lock, Fine: 3/4"

| | | |
|--------------------|--|--------------|
| 3-Plex Land Roller | | Mandako Agri |
| 2000 - 2005 Models | | |
| Page 2 | | Ron Dick |



60' Wing Lock Upgrade Kit
Available (Please inquire)

| | |
|--------------------|---------------------|
| 3-Plex Land Roller | Mandako Agri |
| 2000-2009 Models | Ron Dick |
| Page 3 | |

R9901003 - Pintle Hitch Cat 3
AA001090 - Clevis Hitch Insert w/nut&bolt
AA001089 - Pintle Hitch Wedge Kit

R9909003 - Ratchet Jack

R0131107 - Bolt, Grd 8: 1" x 7"
R0430111 - Nut, Lock, Grd 8: 1"
R0540111 - Washer, Flat: 1"
R9909002 - Hitch Jack, Round Rec.
R9909002 - Hitch Jack, Square Rec.

Cylinder:
 3" x 12",
 3-1/2" x 12",
 4" x 12"
 See Page 14 & 15

R1100010 - Bearing w/S Flange, 4-Bolt x 6.00", 3" Bore
R1100011 - Bearing w/S Flange, 4-Bolt x 6.25", 3" Bore
R1100016 - Bearing Only: 3" Bore

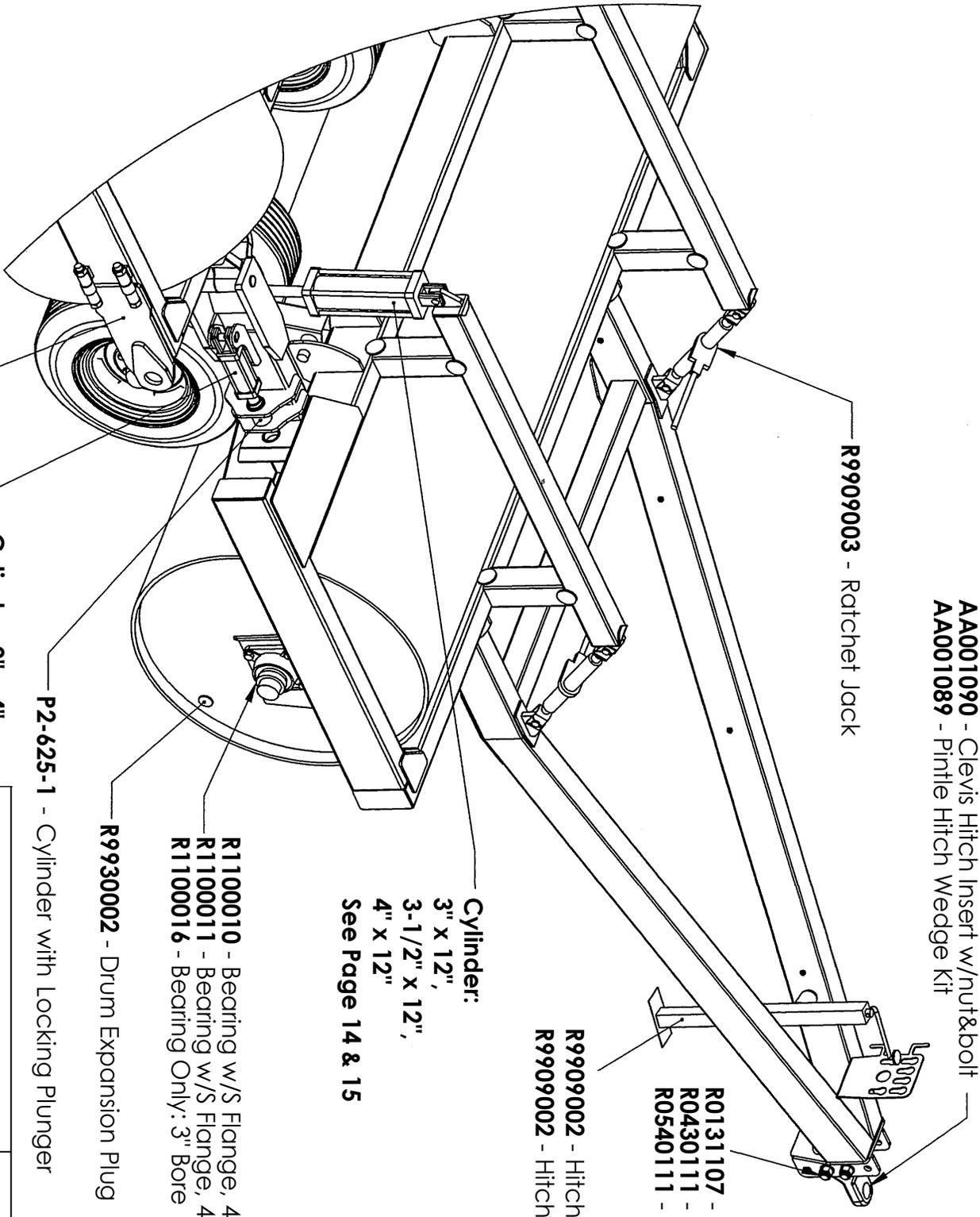
R9930002 - Drum Expansion Plug

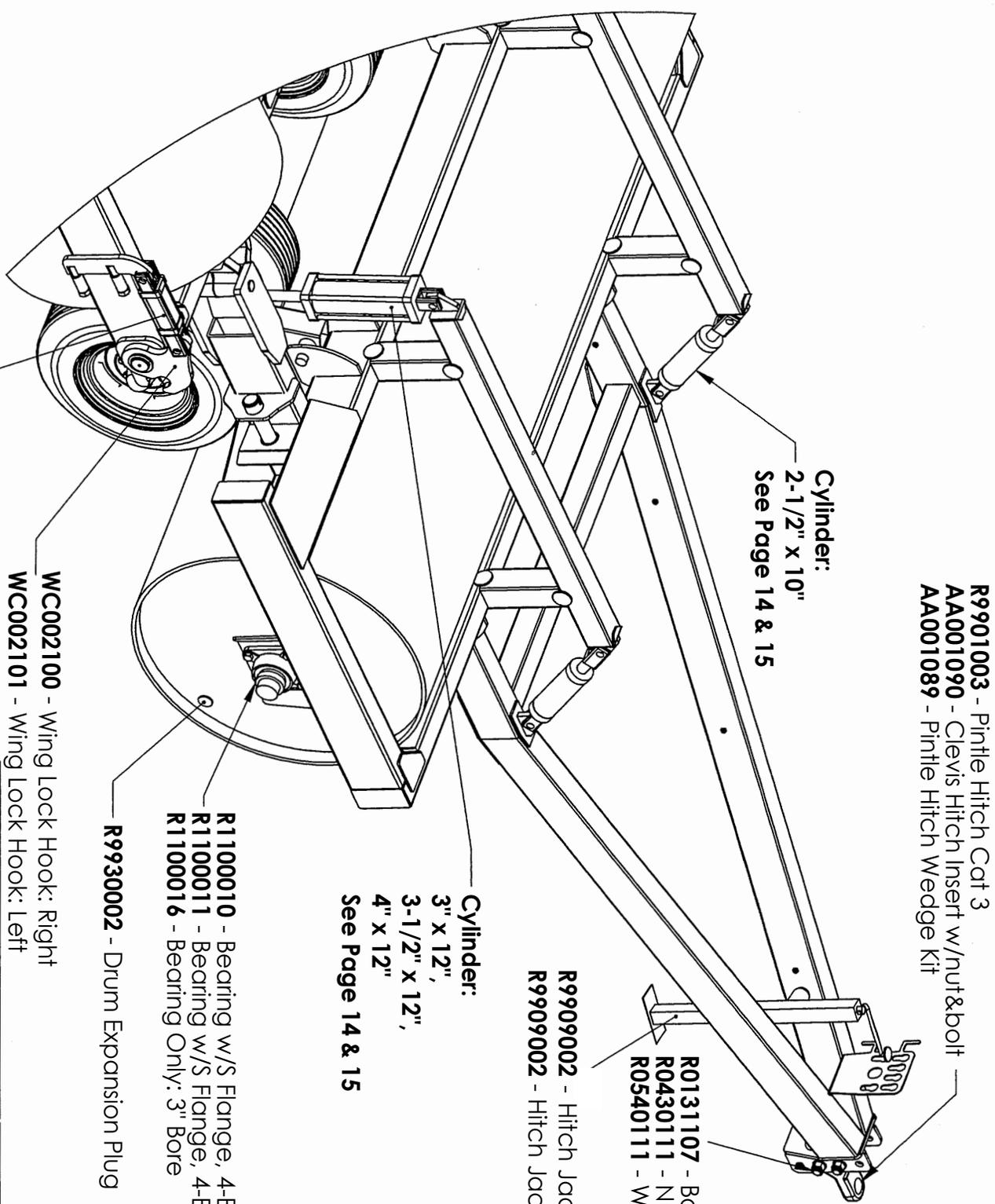
P2-625-1 - Cylinder with Locking Plunger

Cylinder: 2" x 4"
 See Page 14 & 15

LPB-02 - Locking Plate With
 Bolts, Nuts & Rubber Bushing

| | |
|---------------------------|---------------------|
| 3-Plex Land Roller | Mandako Agri |
| 2002-2005 Models | |
| Page 4 | Ron Dick |





Cylinder: 2" x 4"
See Page 14 & 15

| | | |
|---------------------------|----------|---------------------|
| 3-Plex Land Roller | | Mandako Agri |
| 2002-2005 Models | | |
| Page 5 | Ron Dick | |

Note: Cylinder clevis pins with 1-1/2" & 1-3/4" pins requires kit KU100003

LR06-TO - Tower with 1" & 1-1/4" pins

**Cylinder: 4" x 8" (2" ext.)
See Page 14 & 15**

R9911002 - Rubber Bumper

LR00-WFAAL - Wing Frame Axle Arm - Left

PI.25-07000 - Pin

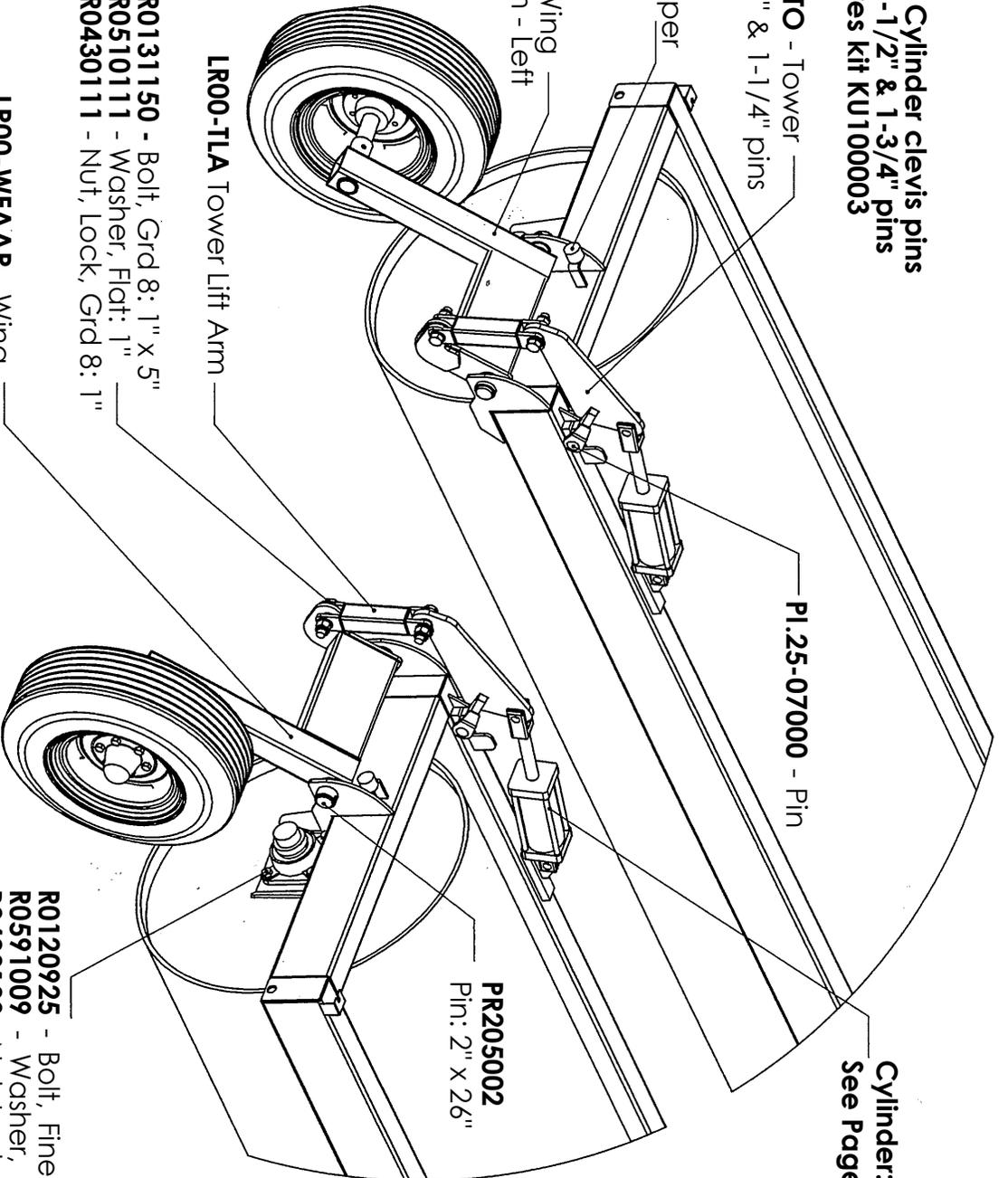
PR205002
Pin: 2" x 26"

LR00-TLA Tower Lift Arm

R01311150 - Bolt, Grd 8: 1" x 5"
R0510111 - Washer, Flat: 1"
R0430111 - Nut, Lock, Grd 8: 1"

LR00-WFAAR - Wing Frame Axle Arm - Right

R0120925 - Bolt, Fine: 3/4" x 2-1/2"
R0591009 - Washer, Belleville: 3/4"
R0420109 - Nut, Lock, Fine: 3/4"



| | |
|---------------------------|---------------------|
| 3-Plex Land Roller | Mandako Agri |
| 2002-2005 Models | |
| Page 6 | Ron Dick |

MFH - KIT Mechanica
 Floating Hitch Kit Option
 Factory Installed Only

R9901003 - Pintle Hitch Cat 3
AA001090 - Clevis Hitch Insert w/nut&bolt
AA001089 - Pintle Hitch Wedge Kit

R0131107 - Bolt, Grd 8: 1" x 7"
R0430111 - Nut, Lock, Grd 8: 1"
R0540111 - Washer, Flat: 1"

R9909002 - Hitch Jack, Round Rec.
R9909002 - Hitch Jack, Square Rec.

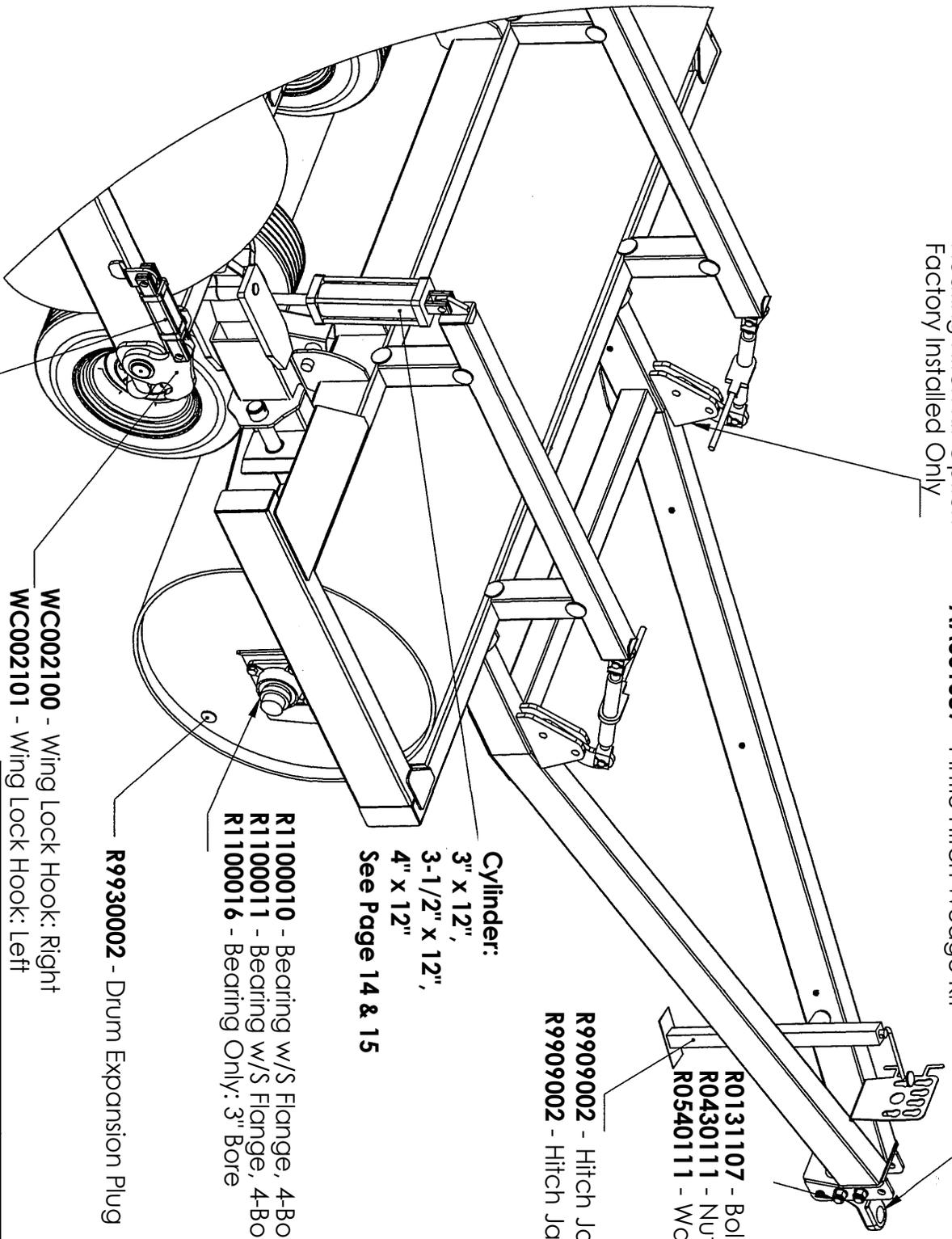
Cylinder:
 3" x 12",
 3-1/2" x 12",
 4" x 12"
 See Page 14 & 15

R1100010 - Bearing w/S Flange, 4-Bolt x 6.00", 3" Bore
R1100011 - Bearing w/S Flange, 4-Bolt x 6.25", 3" Bore
R1100016 - Bearing Only: 3" Bore

R9930002 - Drum Expansion Plug

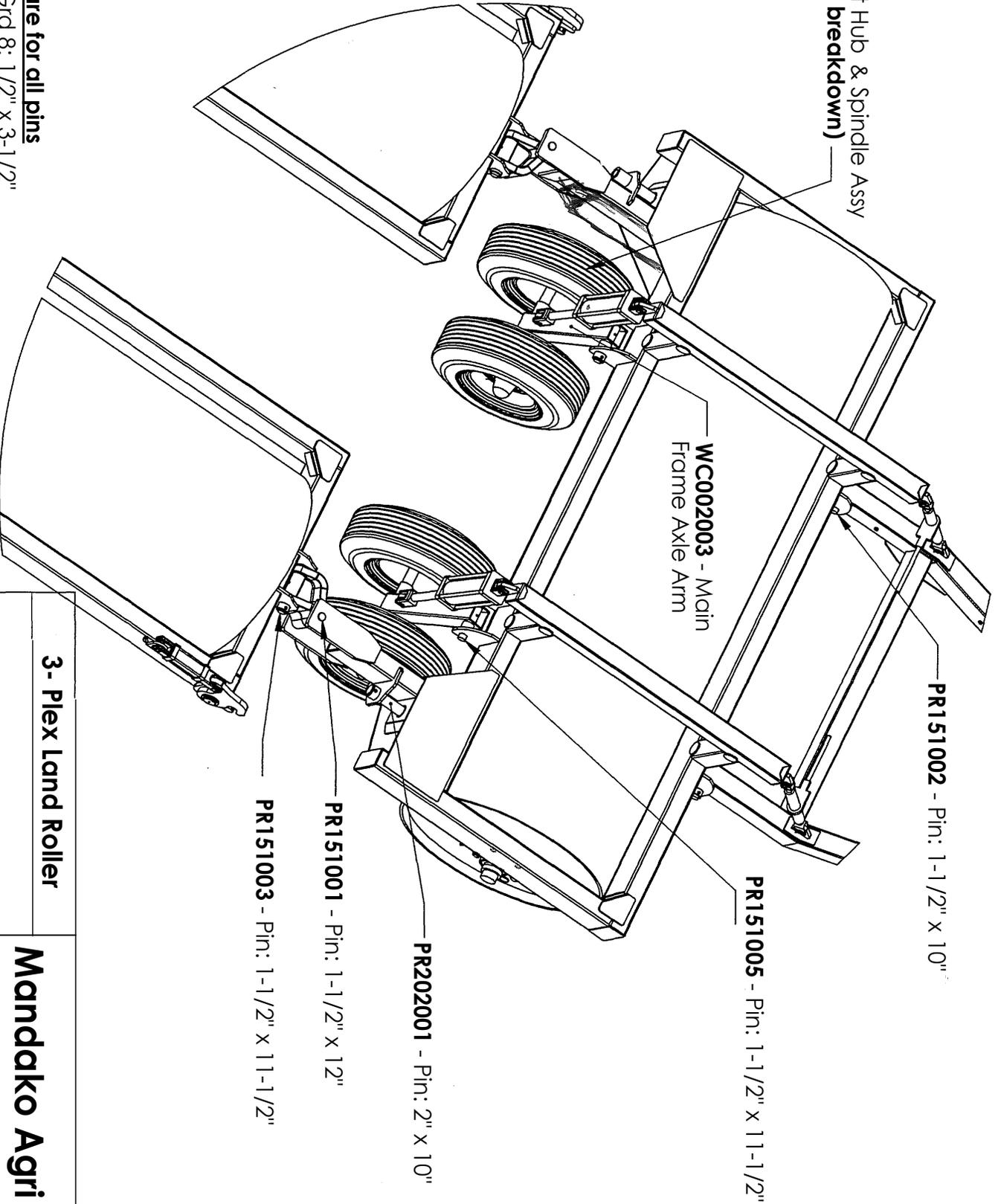
WC002100 - Wing Lock Hook: Right
WC002101 - Wing Lock Hook: Left

Cylinder: 2" x 4"
 See Page 14 & 15



| | |
|---------------------------|---------------------|
| 3-Plex Land Roller | Mandako Agri |
| 2002-2005 Models | |
| Page 7 | Ron Dick |

R9903010 - 6-Bolt Hub & Spindle Assy
 (see page 12 for breakdown)



WC002003 - Main Frame Axle Arm

PR151002 - Pin: 1-1/2" x 10"

PR151005 - Pin: 1-1/2" x 11-1/2"

PR202001 - Pin: 2" x 10"

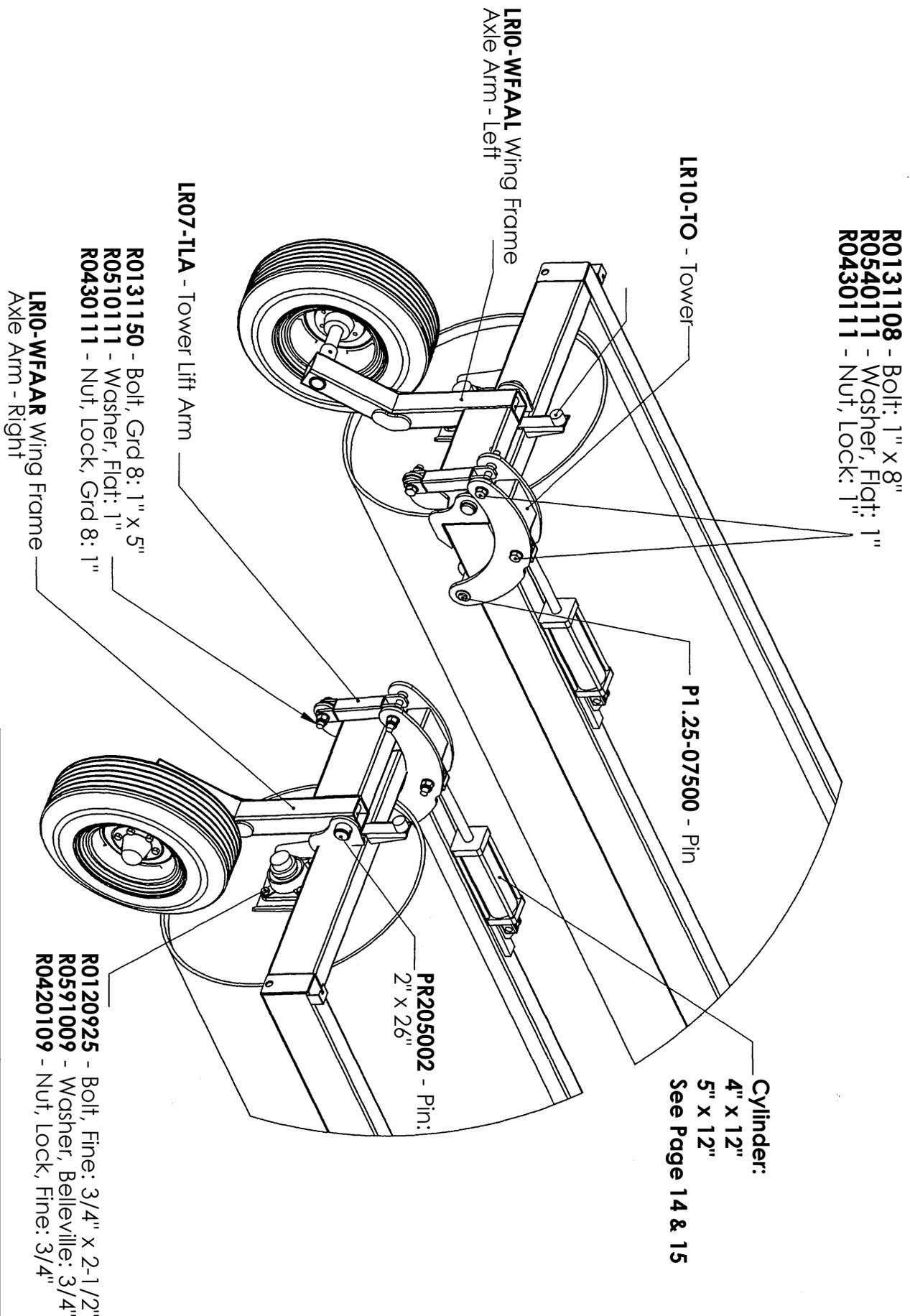
PR151001 - Pin: 1-1/2" x 12"

PR151003 - Pin: 1-1/2" x 11-1/2"

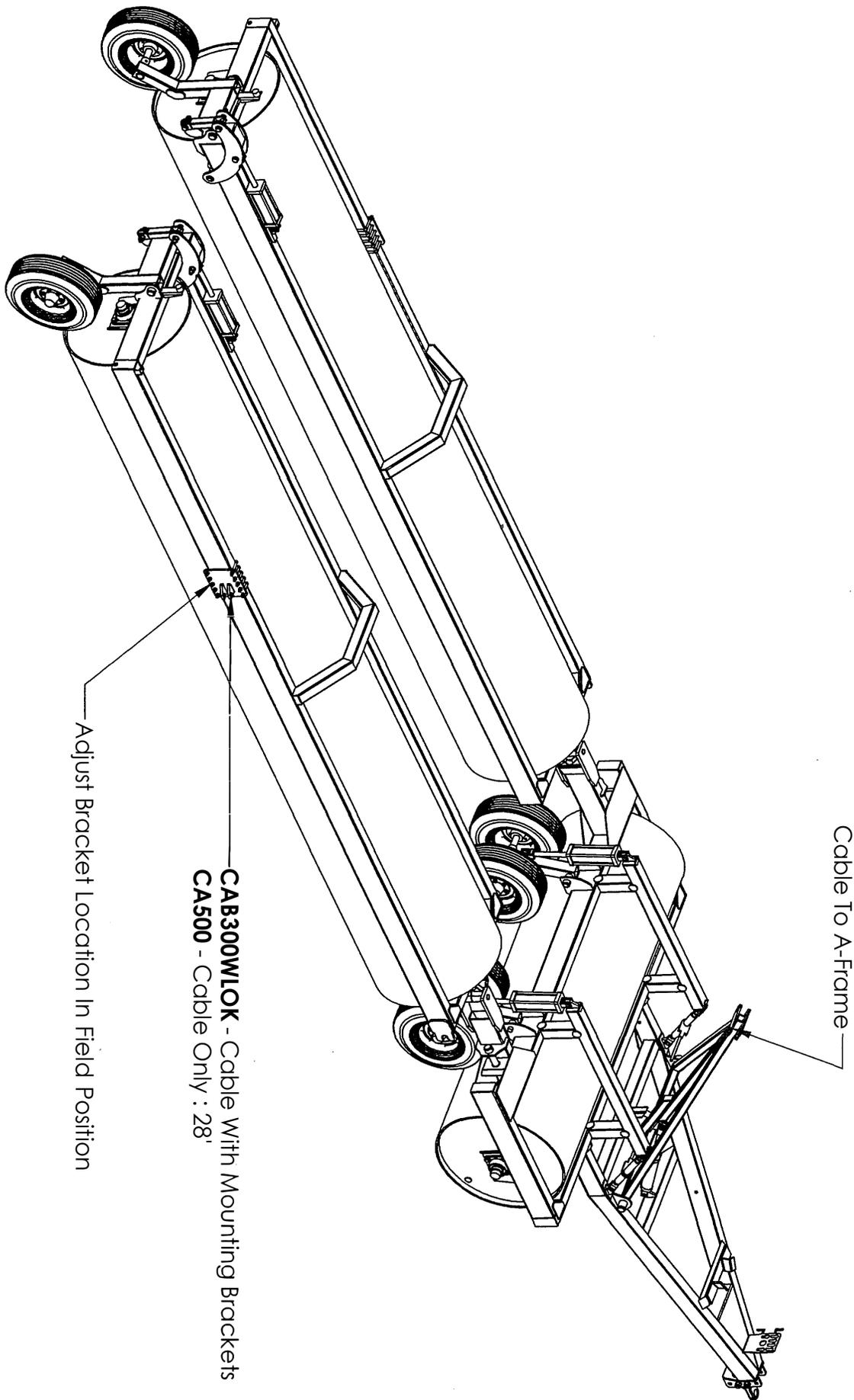
Standard Hardware for all pins
R0130635 - Bolt, Grd 8: 1/2" x 3-1/2"
R0430106 - Nut, Lock, Grd 8: 1/2"

3 - Plex Land Roller

Mandako Agri



| | |
|--------------------|---------------------|
| 3-Plex Land Roller | Mandako Agri |
| 2010 Model | |
| Page 9 | Ron Dick |



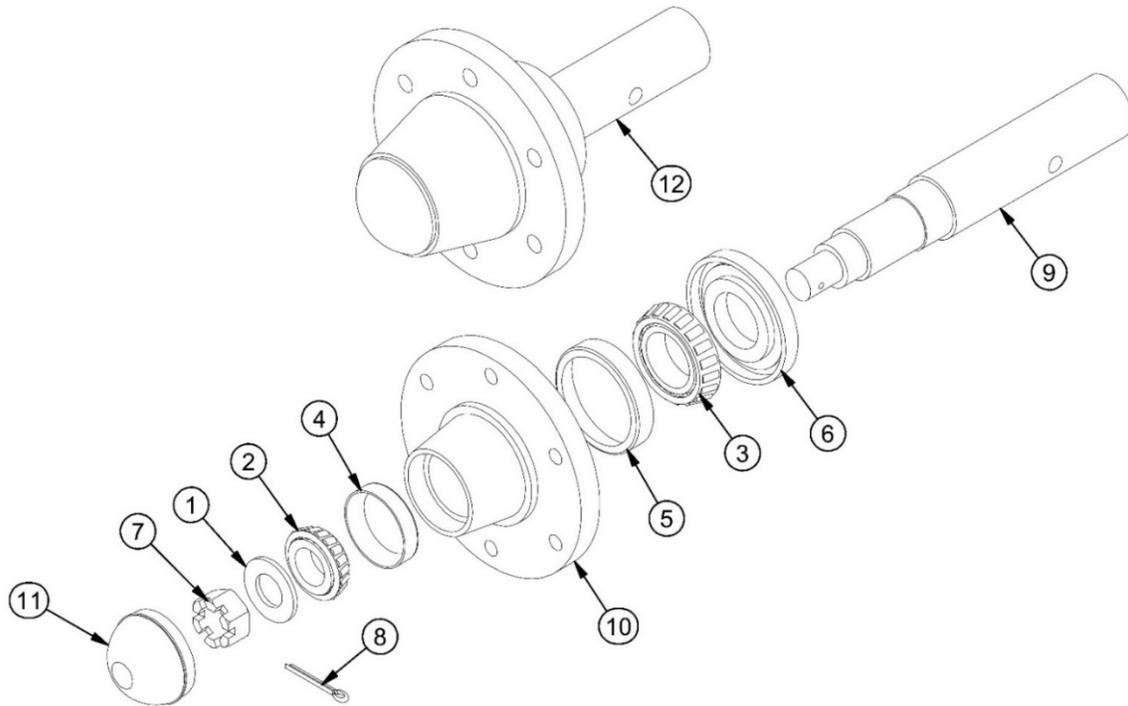
Cable To A-Frame

CAB300WLOK - Cable With Mounting Brackets
 CA500 - Cable Only : 28'

Adjust Bracket Location In Field Position

| | |
|--------------------|--------------|
| 3-Plex Land Roller | Mandako Agri |
| Page 10 | |

Hub/Spindle Assembly Breakdown



| Item # | Part # | Description | Reference # |
|--------|--------------------|--|-------------|
| 1 | R0590100 | Washer, Flat, Hardened: 1" | |
| 2. a) | R1100012 | Bearing, Tapered: 6-Bolt: Outer | LM48548 |
| 2. b) | R1100012-01 | Bearing, Tapered: 6-Bolt: Outer (Premium) | LM48548 |
| 3. a) | R1100013 | Bearing, Tapered: 6-Bolt: Inner | 25580 |
| 3. b) | R1100013-01 | Bearing, Tapered: 6-Bolt: Inner (Premium) | 25580 |
| 4. a) | R1200004 | Race, 6-Bolt: Outer | LM48510 |
| 4. b) | R1200004-01 | Race, 6-Bolt: Outer (Premium) | LM48510 |
| 5. a) | R1200003 | Race, 6-Bolt: Inner | 25520 |
| 5. b) | R1200003-01 | Race, 6-Bolt: Inner (Premium) | 25520 |
| 6. a) | R1320001 | Seal, Grease, 6-Bolt: Single Lip | SE30 |
| 6. b) | R1320001-02 | Seal, Grease, 6-Bolt: Labyrinth | |
| 7 | R1410001 | Nut, Castle, Fine: 1" | |
| 8 | R1618900 | Cotter Pin: 3/16" x 2" | |
| 9 | R9904006 | *See below* Spindle, 6-Bolt, w/nut & wshr | |
| 10 | R9905001-01 | Wheel Hub, Cast: 6"-6-Bolt (Includes Races) | HA618 |
| 11. a) | R9906001 | Dust Cap, 6-Bolt Wheel Hub | DC-15 |
| 11. b) | n/a | Dust Cap, ADR, 6-Bolt Wheel Hub *Please Inquire* | |
| 12 | R9903010 | *See below* Complete 6-Bolt Wheel Hub/Spindle Assy | |
| * | KB100001 | Rebuild Kit: Includes all "a" item's from 2-6 (Canada only) | |
| * | KB100001-11 | Premium Rebuild Kit: Includes all "b" item's from 2-6 | |
| * | KB100001-12 | Premium Rebuild Kit: Includes all "b" item's from 2-8,11 | |

CTD Hubs shown only

*Please note that for Items 9 & 12 a Spindle Order Form is required when ordering these items (See pg. 12) *

For all 8-Bolt Hub/Spindle Assemblies or parts please inquire

Spindle Order Form

***Please document in inches all blanks pertaining to either Fig. 1 or Fig. 2. ***

FIG. 1

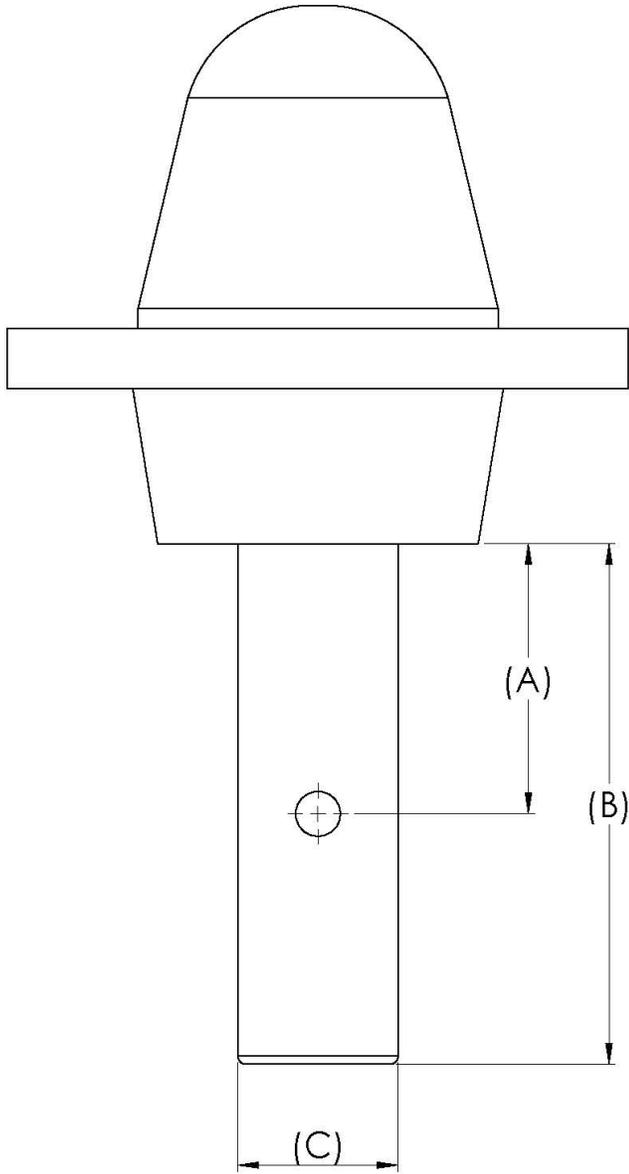
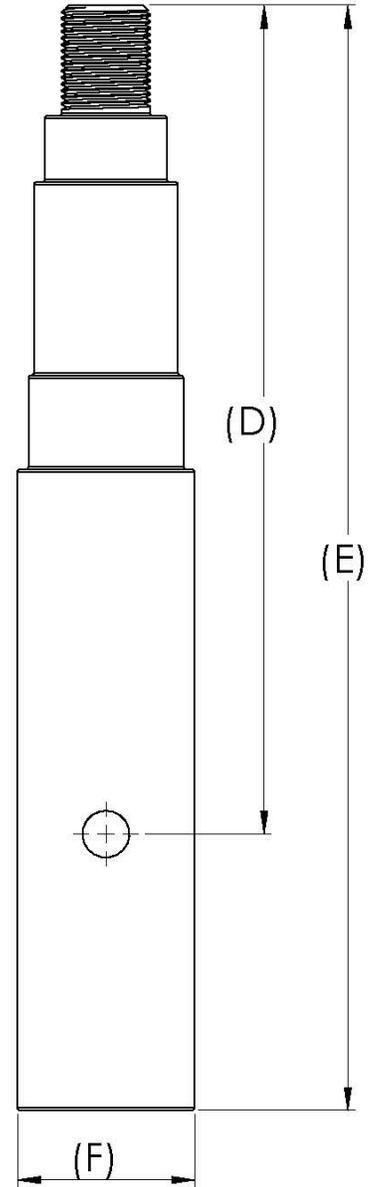


FIG. 2



A. _____

B. _____

C. _____

D. _____

E. _____

F. _____

G. Manufacturer (Casting Stamp) _____

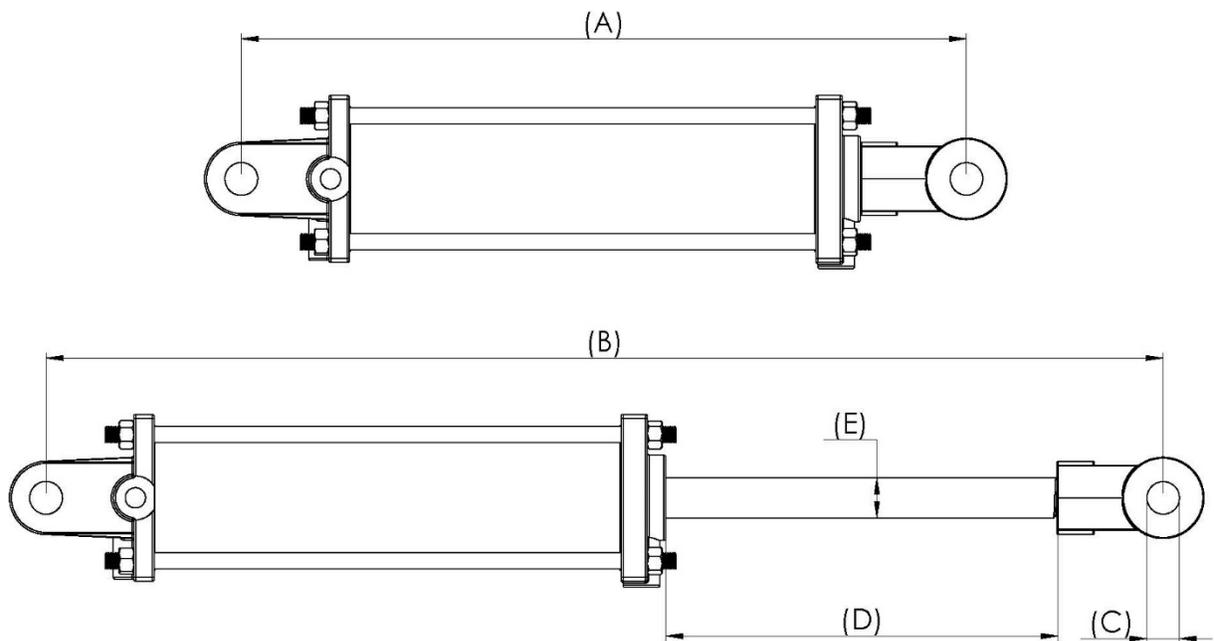
STOCK CYLINDERS



Monarch/Lion

| Part No. | Description | (A) | (B) | (C) | Repair Kit No. |
|-------------|--|---------|---------|-----|----------------|
| R1920401 | Cylinder, Tie-Rod, Yellow: 2" x 4" (Ref: 661773) | 14-1/4" | 18-1/4" | 1" | KR100018 |
| R1920401-01 | Cylinder, Tie-Rod, Black: 2" x 4" (Ref: 661773) | 14-1/4" | 18-1/4" | 1" | KR100018 |
| R1925010 | Cylinder, Tie-Rod, Black: 2-1/2" x 10" (Ref: 648686) | 20-1/4" | 30-1/4" | 1" | KR100016 |
| R1940800 | Cylinder, Tie-Rod, Yellow: 4" x 8" (Ref: 661857) | 20-1/4" | 32-1/4" | 1" | KR100000 |
| R1941201 | Cylinder, Tie-Rod, Yellow: 4" x 12" (Ref: 661749) | 22-1/4" | 34-1/4" | 1" | KR100000 |
| R1941201-01 | Cylinder, Tie-Rod, Black: 4" x 12" (Ref: 661749) | 22-1/4" | 34-1/4" | 1" | KR100000 |
| R1951204 | Cylinder, Welded, Black: 5" x 12" (Ref: 675239) | 22-1/4" | 34-1/4" | 1" | KR100007 |

Please inquire for all cylinders that do not match referenced dimensions



CYLINDER STOPS

| Part No. | Description | (D) | (E) |
|----------|--|-----|--------|
| PP030008 | *See below* Cylinder Stop, w/wire latch pin: 1-1/2" x Misc. | * | * |
| PP040003 | *See below* Cylinder Stop, w/wire latch pin: 2" x Misc. | * | * |
| PP032021 | Cylinder Stop, w/wire latch pin: 1-1/2" x 12" | 12" | 1-1/2" |
| PP042014 | Cylinder Stop, w/wire latch pin: 2" x 12" | 12" | 2" |



***When requesting Part No. PP030008 or PP040003 please provide referenced (D) and (E) dimensions. ***

LIST OF POSSIBLE CYLINDERS (FOR REFERENCE ONLY)



| Ref. No. | Description | (A) | (B) | (C) | Seal Kit Ref. No. | Repl. Part No. |
|-----------------|---------------------------------|---------|---------|-----|-------------------|----------------|
| F200040ABAAA07B | Cylinder, Tie-Rod: 2" x 4" | 14-1/4" | 18-1/4" | 1" | PMCK-B200000 | R1920401 |
| F250100ABAAA07B | Cylinder, Tie-Rod: 2-1/2" x 10" | 20-1/4" | 30-1/4" | 1" | PMCK-B250000 | R1925010 |
| F300120ABAAA07B | Cylinder, Tie-Rod: 3" x 12" | 22-1/4" | 34-1/4" | 1" | PMCK-B300000 | R1941201 |
| F400120ABACA07B | Cylinder, Tie-Rod: 4" x 12" | 22-1/4" | 34-1/4" | 1" | PMCK-B400000 | R1941201 |
| SAE-42510 | Cylinder, Welded: 2-1/2" x 10" | 20-1/4" | 30-1/4" | 1" | PMCK-425000 | R1925010 |
| SAE-43012 | Cylinder, Welded: 3" x 12" | 22-1/4" | 34-1/4" | 1" | PMCK-430000 | R1941201 |
| SAE-44012 | Cylinder, Welded: 4" x 12" | 22-1/4" | 34-1/4" | 1" | PMCK-440000 | R1941201 |



| Ref. No. | Description | (A) | (B) | (C) | Seal Kit Ref. No. | Replacement Part # |
|----------------|---------------------------------|---------|---------|-----|-------------------|--------------------|
| HYS 20AGU04-10 | Cylinder, Tie-Rod: 2" x 4" | 14-1/4" | 18-1/4" | 1" | HYS AGU 201125-10 | R1920401 |
| HYS 25AGU10-10 | Cylinder, Tie-Rod: 2-1/2" x 10" | 20-1/4" | 30-1/4" | 1" | HYS AGU 251125-10 | R1925010 |
| HYS 30AGU12-10 | Cylinder, Tie-Rod: 3" x 12" | 22-1/4" | 34-1/4" | 1" | HYS AGU 301250-10 | R1941201 |
| HYS 40AGU12-10 | Cylinder, Tie-Rod: 4" x 12" | 22-1/4" | 34-1/4" | 1" | HYS AGU 401250-10 | R1941201 |
| HYS 20FEM04-10 | Cylinder, Welded: 2" x 4" | 14-1/4" | 18-1/4" | 1" | HYS MF 201250-10 | R1920401 |
| HYS 25FEM10-10 | Cylinder, Welded: 2-1/2" x 10" | 20-1/4" | 30-1/4" | 1" | HYS MF 251500-10 | R1925010 |
| HYS 30FEM12-10 | Cylinder, Welded: 3" x 12" | 22-1/4" | 34-1/4" | 1" | HYS MF 301500-10 | R1942201 |
| HYS 40FEM12-10 | Cylinder, Welded: 4" x 12" | 22-1/4" | 34-1/4" | 1" | HYS MF 402000-10 | R1941201 |



| Ref. No. | Description | (A) | (B) | (C) | Seal Kit Ref. No. | Replacement Part # |
|---------------|---------------------------------|---------|---------|-----|-------------------|--------------------|
| HTR2004-ORB-P | Cylinder, Tie-Rod: 2" x 4" | 14-1/4" | 18-1/4" | 1" | SK-HTR201125 | R1920401 |
| HTR2510-ORB-P | Cylinder, Tie-Rod: 2-1/2" x 10" | 20-1/4" | 30-1/4" | 1" | SK-HTR251125 | R1925010 |
| HTR3012-ORB-P | Cylinder, Tie-Rod: 3" x 12" | 22-1/4" | 34-1/4" | 1" | SK-HTR301250 | R1941201 |
| HTR4012-ORB-P | Cylinder, Tie-Rod: 4" x 12" | 22-1/4" | 34-1/4" | 1" | SK-HTR401250 | R1941201 |
| HCL2004-ORB | Cylinder, Welded: 2" x 4" | 14-1/4" | 18-1/4" | 1" | SK-HBU/CL-201250 | R1920401 |
| HCL2510-ORB | Cylinder, Welded: 2-1/2" x 10" | 20-1/4" | 30-1/4" | 1" | SK-HBU/CL-251500 | R1925010 |
| HCL3012-ORB | Cylinder, Welded: 3" x 12" | 22-1/4" | 34-1/4" | 1" | SK-HBU/CL-301500 | R1941201 |
| HCL4012-ORB | Cylinder, Welded: 4" x 12" | 22-1/4" | 34-1/4" | 1" | SK-HBU/CL-402000 | R1941201 |



| Ref. No. | Description | (A) | (B) | (C) | Seal Kit Ref. No. | Replacement Part # |
|----------|---------------------------------|---------|---------|-----|-------------------|--------------------|
| 8174872 | Cylinder, Tie-Rod: 2-1/2" x 10" | 21-1/4" | 31-1/4" | 1" | 8474819 | R1925010 |
| 8004984 | Cylinder, Tie-Rod: 3" x 12" | 22-1/4" | 34-1/4" | 1" | 8474827 | R1941201 |
| 8195059 | Cylinder, Tie-Rod: 4" x 12" | 22-1/4" | 34-1/4" | 1" | 8474843 | R1941201 |
| n/a | Cylinder, Welded: 2" x 4" | 14-1/4" | 18-1/4" | 1" | 8435935 | R1920401 |
| 8497935 | Cylinder, Welded: 2-1/2" x 10" | 20-1/4" | 30-1/4" | 1" | 8435943 | R1925010 |
| 8410318 | Cylinder, Welded: 3" x 12" | 22-1/4" | 34-1/4" | 1" | 8435950 | R1941201 |
| 8498313 | Cylinder, Welded: 4" x 12" | 22-1/4" | 34-1/4" | 1" | 8435984 | R1941201 |

LAND ROLLER ACRE COUNTER

CONVERSION CHART

| 42" Diameter Drum Land Roller | |
|-------------------------------|-------|
| 6' | 0.73 |
| 8' | 0.97 |
| 10' | 1.21 |
| 12' | 1.45 |
| 15' | 1.82 |
| 20' | 2.42 |
| 30' | 3.63 |
| 34' | 4.12 |
| 40' | 4.85 |
| 42' | 5.09 |
| 45' | 5.45 |
| 50' | 6.06 |
| 60' | 7.27 |
| 61' | 7.39 |
| 62' | 7.51 |
| 65' | 7.88 |
| 70' | 8.48 |
| 75' | 9.09 |
| 80' | 9.69 |
| 85' | 10.30 |

| 36" Diameter Drum Land Roller | |
|-------------------------------|-------|
| 6' | 0.73 |
| 8' | 0.97 |
| 10' | 1.21 |
| 12' | 1.45 |
| 15' | 1.82 |
| 20' | 2.42 |
| 30' | 3.63 |
| 34' | 4.12 |
| 40' | 4.85 |
| 42' | 5.09 |
| 45' | 5.45 |
| 50' | 6.06 |
| 60' | 7.27 |
| 61' | 7.39 |
| 62' | 7.51 |
| 65' | 7.88 |
| 70' | 8.48 |
| 75' | 9.09 |
| 80' | 9.69 |
| 85' | 10.30 |

**** NOTE ****

Acre Counters are specifically calibrated for either a 42" or 36" diameter drum. This is why the multiplier numbers are identical.

**** USING THE CONVERSION CHART ****

Step 1: Always remember to check acre counter reading before you start rolling.
IMPORTANT!! Write this number down!

Step 2: When finished rolling, calculate the difference from the beginning to end of the acre counter

Step 3: Multiply acre counter number (ending number minus starting number) with the number as associated on the chart above. Make sure to use the right land roller LENGTH and DRUM SIZE

| Table: A | | |
|----------|----------|---|
| Item | Part # | Description |
| 1 | AA001001 | Acre Counter w/Bracket: 36" Drum (560 rev/mile) |
| 2 | AA001002 | Acre Counter w/Bracket: 42" Drum (480 rev/mile) |



REVISION: 3.0

PART #: R9912010

RELEASED: JANUARY 01, 2019

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