Big Country® by WAKO®

MADE IN USA

BIG COUNTRY WAGON (BCW) TOOLBAR OWNER/OPERATOR MANUAL



Big Country® by WAKO®

5606 N. Hwy 81
Enid, OK. 73701

(580) 234-3434
(800) 299-4300
www.wakollc.com

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INFORMATION

Thank you for purchasing a Wako manufactured Big Country Wagon. This machine has been set at the factory for the most common conditions, however after time some adjustment may be necessesary. This manual will describe those adjustments as well as listing replacement parts.

For parts call: Local (580) 234-3434
Toll Free (800) 299-4300

⚠ CAUTION: **Do not operate this machinery without proper training**

Procedures for proper operating of your BCW Chisel. Please call Wako LLC.

⚠ CAUTION: **Do not operate Anhydrous Ammonia system without proper training**

ADJUSTMENT SECTION

Your Big Country has been adjusted to level at the factory, however over time minor adjustments may be needed. In making these adjustments you must take caution to do them correctly or you will get the machine out of proper positioning. All adjustments for leveling are to be made with machine in ground/running position. Wako recommends using a level to make all adjustments.

LEVELING YOUR MACHINE

The simplest way to level your machine is to turn the screwjack located on the front gauge wheel assembly. (See picture below)





ADJUSTMENT

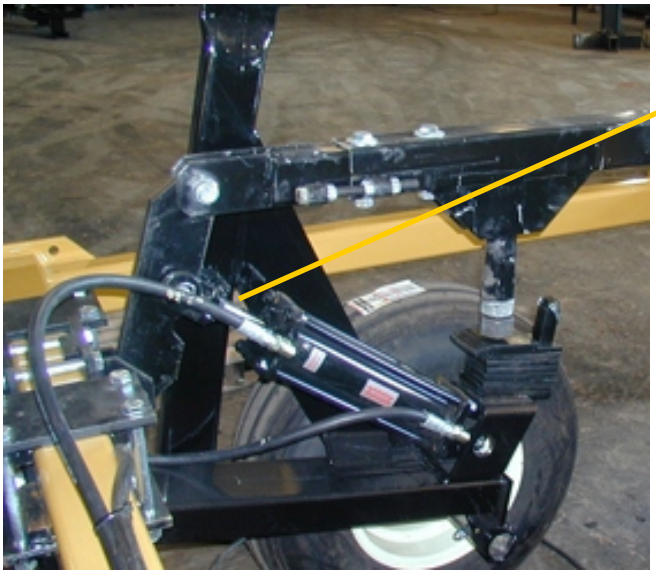
continued

CAUTION:

Use caution when adjusting the depth of your machine. This machine has been set to level at the factory and improper adjustment will result in poor machine performance.

Depth Adjustment

When adjusting the depth of this machine always begin by checking the rephasing lift cylinders to make sure they are all stroking correctly. Every cylinder should move the same distance from the head. If they do not you may have air in the system and this must be removed by fully extending the cylinders and continue to pressure the cylinders until oil has pushed out the air. (This may take a minute or two)



CAUTION:

If you adjust the rephasing system without having all the cylinders moving simultaneously your adjustments will not be correct.

ADJUSTMENT

continued

Depth Adjustment

The depth adjustment plates are designed to come to rest against the 1-1/2” positioning bolt The positioning bolt can be adjusted to the desired depth for it’s frame section.

The center section of the machine has two positioning bolts and they must be extended an equal distance

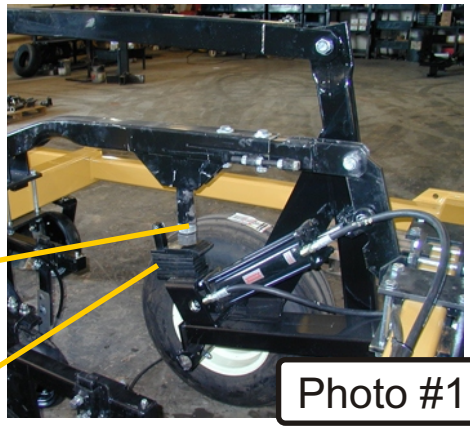


Photo #1

The center section has fixed gauge wheel positions.



Photo #2

The wing sections have adjustable gauge wheel positions.

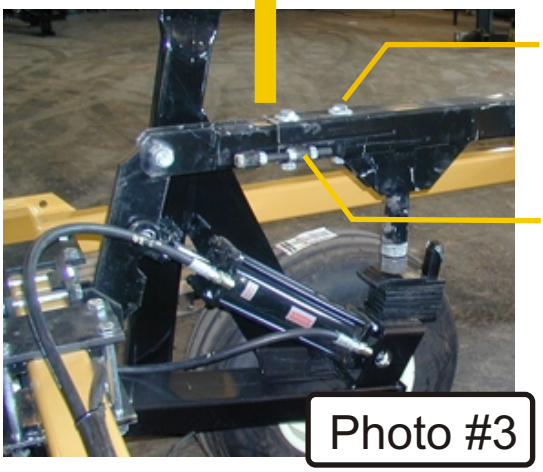
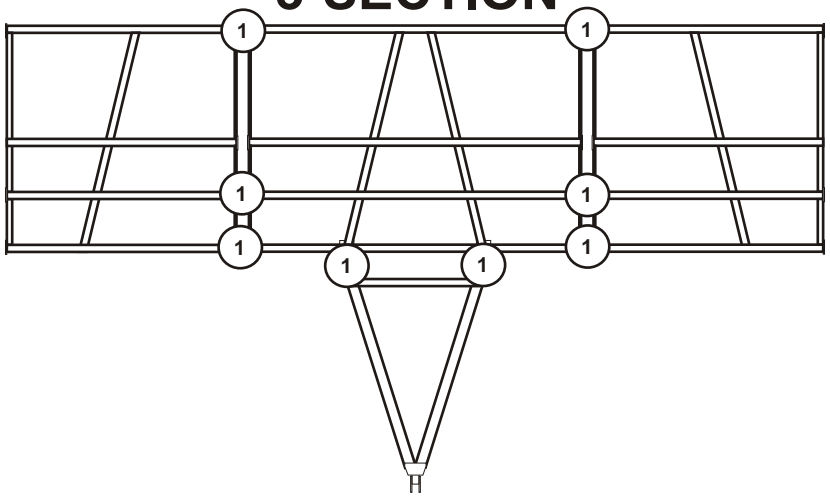


Photo #3

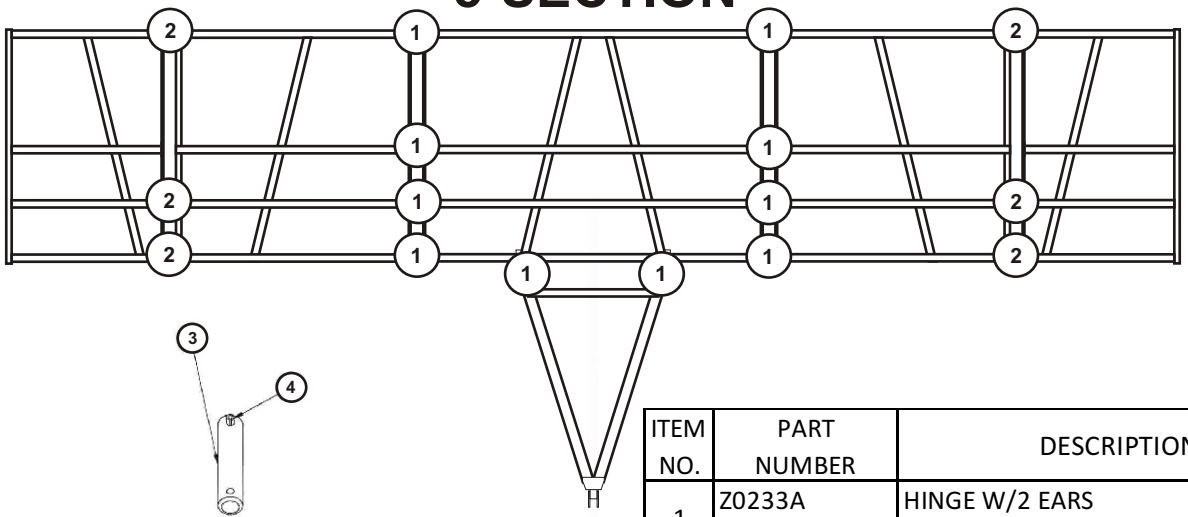
Since the center gauge wheels are fixed in their position, the wings are always adjusted to the center first. To adjust the wing depth you must change the wing gauge wheel position. First lower the center section until the 1-1/2 adjustment bolts are almost touching the depth stops. (See photo#1). The wing depth should then be set to the same depth as the center. To do this loosen the 3/4” locking bolts and adjust the 5/8 bolt to raise or lower the gauge wheel. (See photo #3 above)

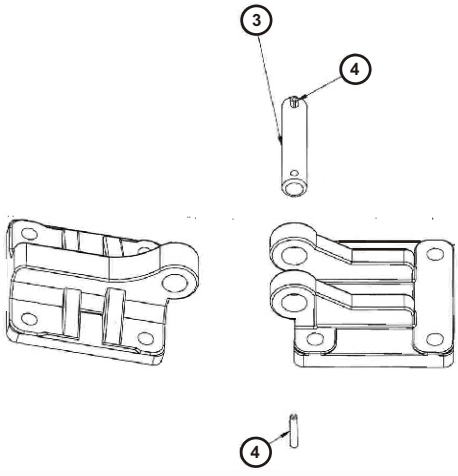
HINGES
WINGS & TONGUE

3-SECTION



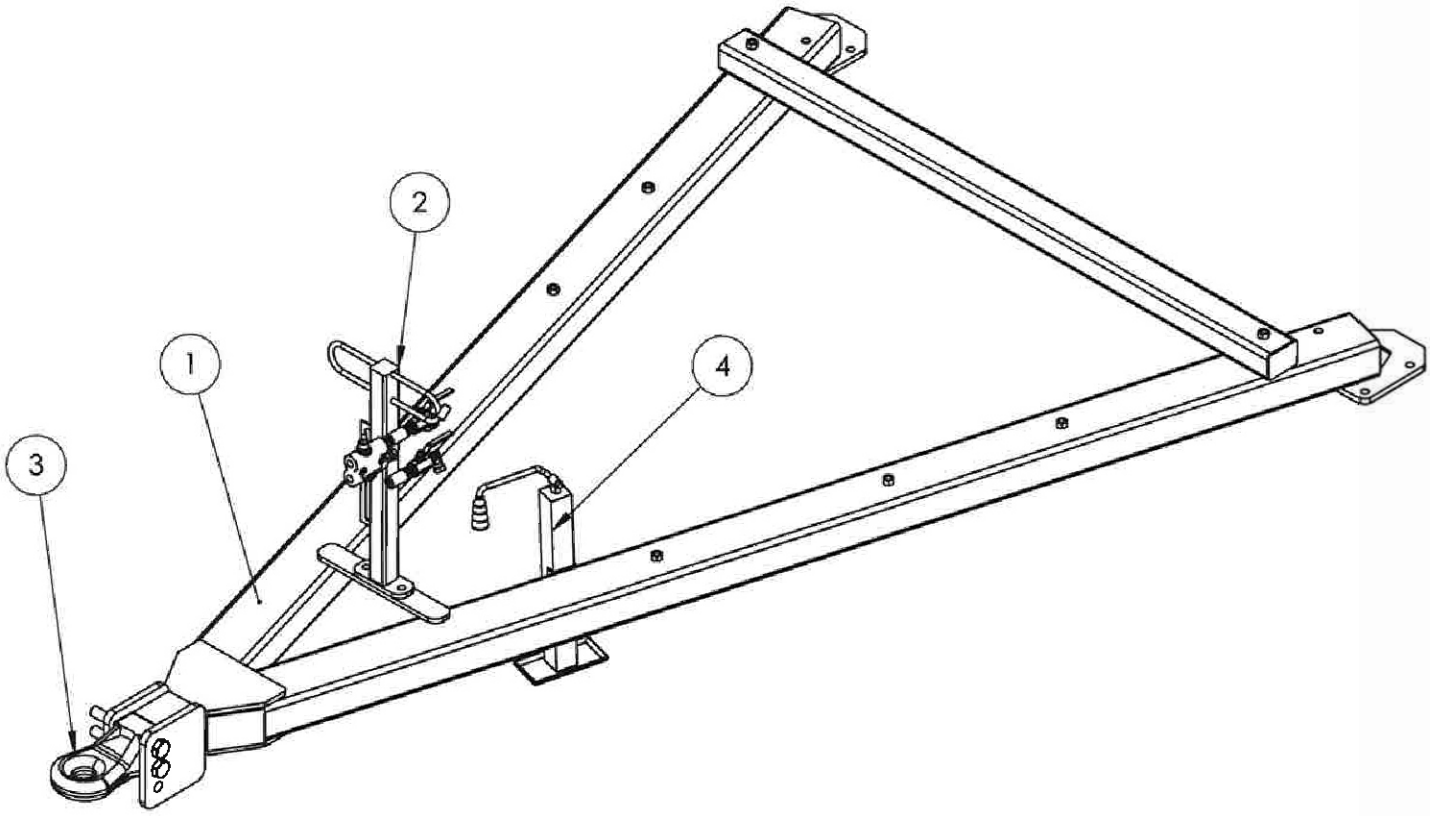
5-SECTION





ITEM NO.	PART NUMBER	DESCRIPTION
1	Z0233A Z0234A	HINGE W/2 EARS HINGE W/1 EAR
2	Z0233C Z0234C	HINGE HEAVY W/2 EARS (5-SECT) HINGE HEAVY W/1 EAR (5-SECT)
3	Z0233B	PIN HINGE (ALL)
4	DPB410	PIN SPRING ROLL 3/8 X 2 (ALL)
NO PIC	FHC34212GR8	BOLT HXCP 3/4 X 2-1/2 GR8
NO PIC	FLW34	WASHER LOCK 3/4
NO PIC	FNT34GR8	NUT HX 3/4 GR8

TONGUE & CLEVIS
(160 & 190)

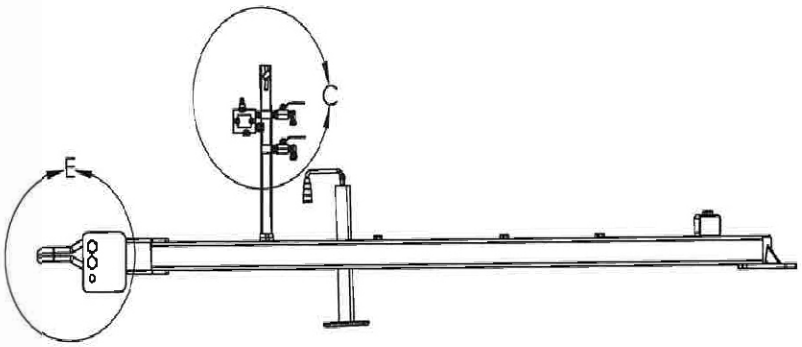


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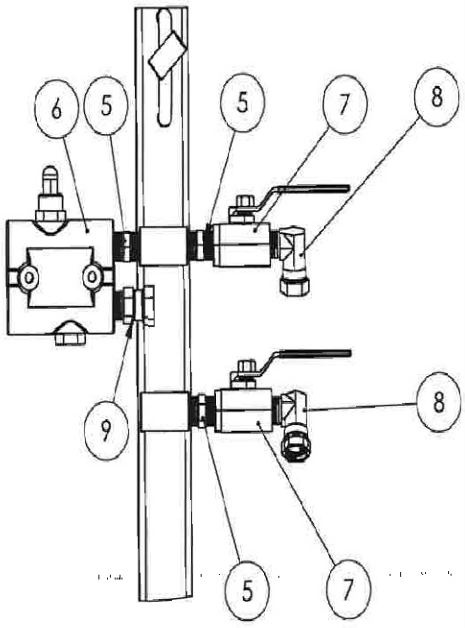
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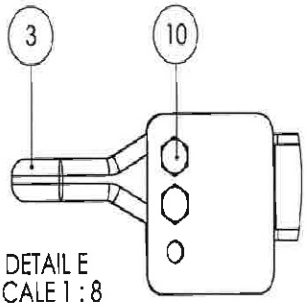
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TONGUE & CLEVIS (160 & 190)



DETAIL C
SCALE 1 : 5





DETAIL E
SCALE 1 : 8

PARTS LIST

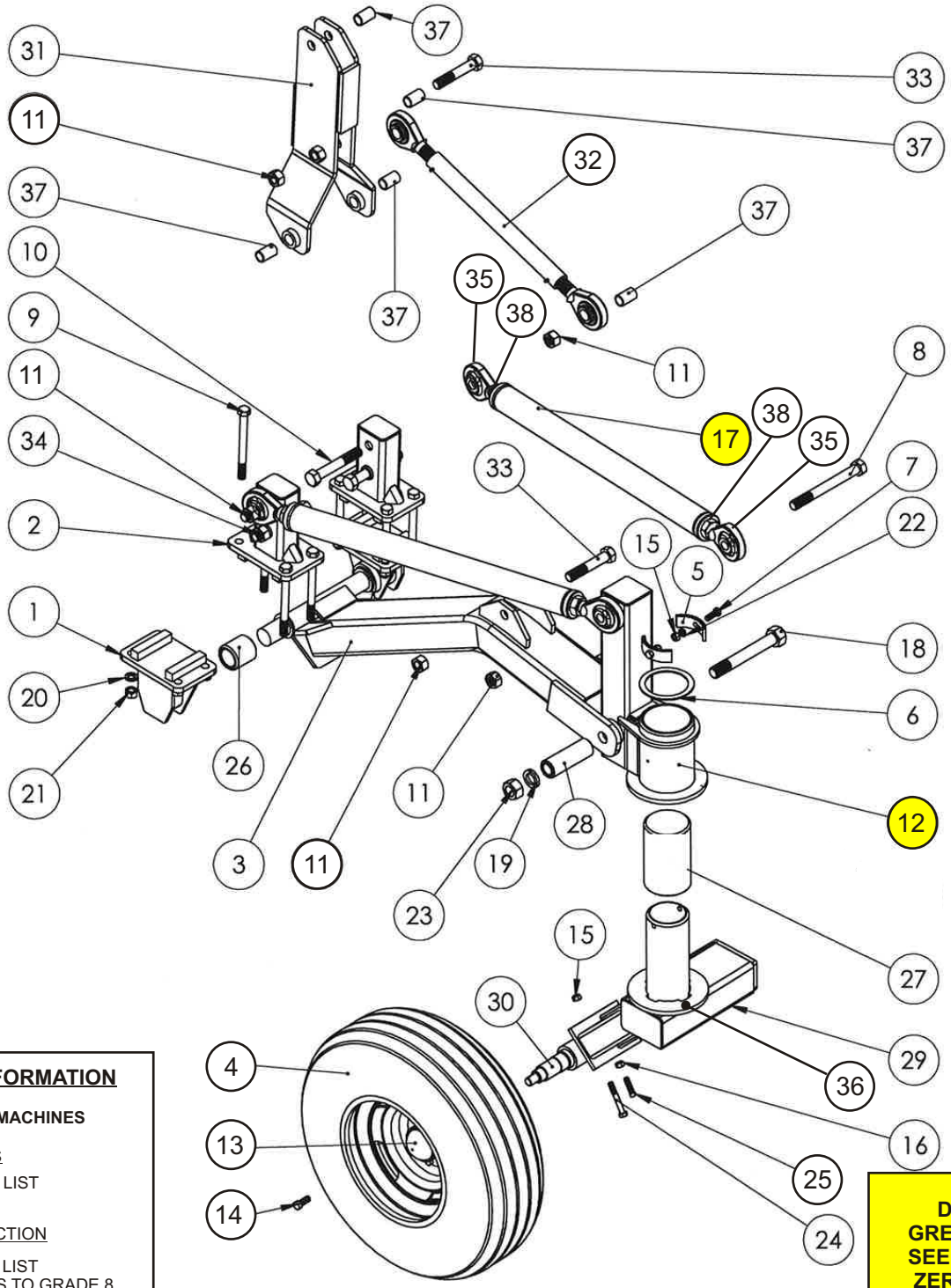
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Z0853-WSA Z0853-WS	BCW TONGUE 160 CENTER BCW TONGUE 190 CENTER	1 1	6	PVA127018	HYD. PRESSURE RELIEF VALVE	1
2	Z0086-WSD	HYD. HOSE STAND W/COLLARS	1	7	SVAA050C	VALVE BALL #2000	2
3	XTE421V3	CLEVIS HITCH (CAT4) BCW	1	8	PFF8MP-6FPX90	HYD. SWVL EL 1/2 MPT X 3/8 FPTS	2
4	MTJ15SQ5	JACK TUBE MNT. 15" #5000 TW SQ	1	9	PFA8MP-8FPX	HYD. SWVL CON 1/2 MPT X 1/2 FPTS	1
5	PFN8MP-8MP	HYD. NIPPLE 1/2 MPT X 1/2 MPT	3	10	FHC01812GR8	BOLT HXCP 1 X 8-1/2 GR8	2
ITEMS NOT PICTURED							
			(SEE PAGE 5)				
	Z0233A	HINGE TONGUE W/2 EARS	2		Z0233B	PIN HINGE BCW	2
	Z0234A	HINGE TONGUE W/1 EAR	2		DPB410	PIN SPRING ROLL 3/8 X 2	4

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FRONT GAUGE WHEEL (CENTER & WING)



IMPORTANT INFORMATION

3 & 5 SECTION MACHINES

WINGS

USE PARTS LIST

CENTER SECTION

USE PARTS LIST
CHANGE ALL BOLTS TO GRADE 8

DESIGNATES GREASABLE PART SEE (PAGE 37) FOR ZERK LOCATIONS

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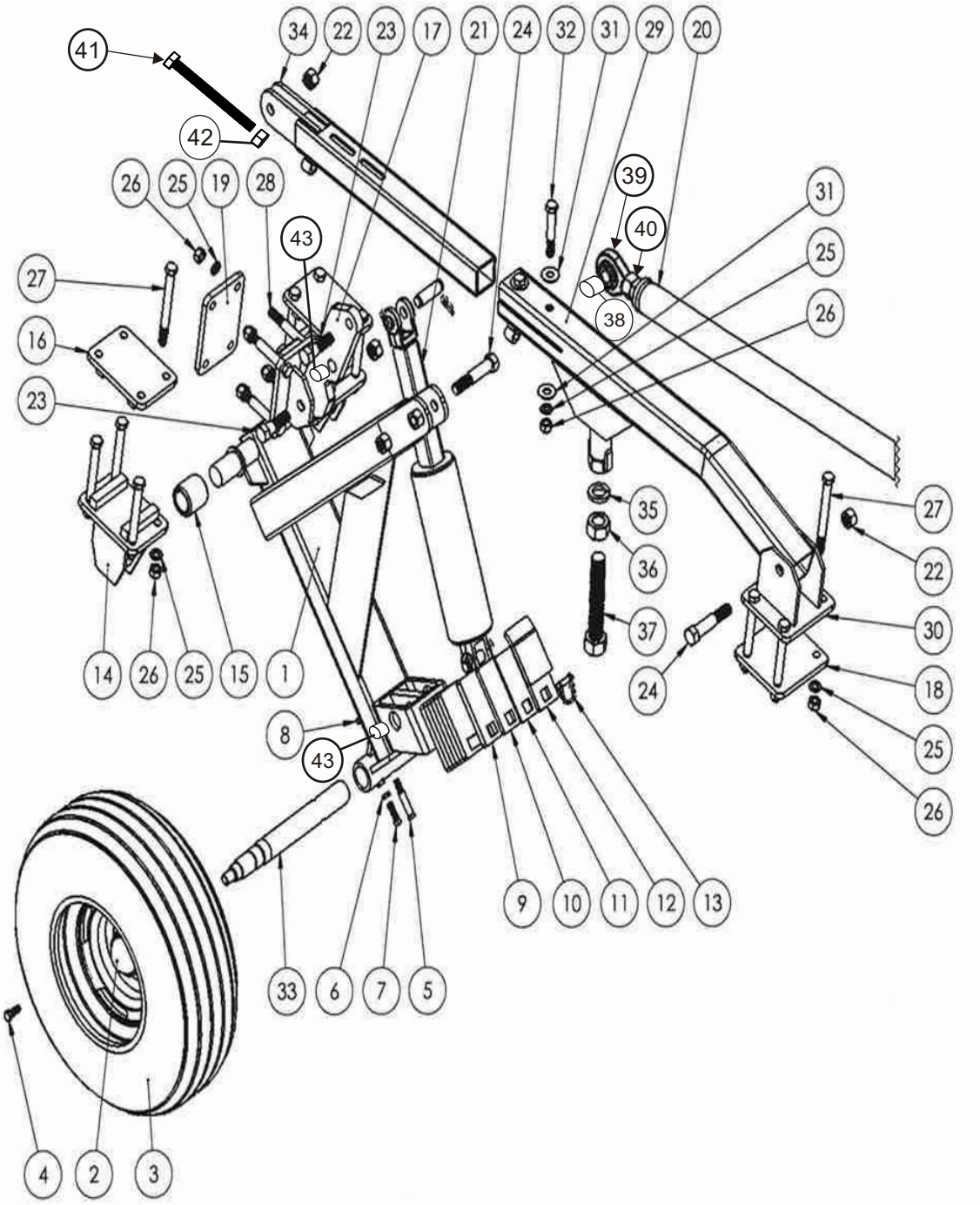
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FRONT GAUGE WHEEL (CENTER & WING)

PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Z0326-WS	BCW GW MOUNT	2
2	Z0867-WSC	BCW FRONT GW TOWER (SMALL)	2
3	Z0327-WS	BCW FRONT GW ARM	1
4	(PAGE 20)	WHEEL & TIRE	1
5	Z0321J	RETAINER 5/16 X 1-1/2 X 4-1/2	2
6	Z0323L	BUSHING 5-3/4 OD X 4-9/16 ID	1
7	FHC12112	BOLT HXCP 1/2 X 1-1/2	2
8	FHC01912	BOLT HXCP 1 X 9-1/2	1
9	FHC34812	BOLT HXCP 3/4 X 8-1/2	8
10	FHC01612	BOLT HXCP 1 X 6-1/2	2
11	FNT1W	NUT HX 1" NYLON LOCK	4
12	Z0867-WSA	BCW FRONT GW TOWER (BIG)	1
13	(PAGE 21)	HUB (803) 6-BOLT	1
14	FLB916112	BOLT LUG 9/16 X 1-1/2 FINE	6
15	FNT12W	NUT HX 1/2 NYLON LOCK	2
16	FNT12J	NUT JAM 1/2	1
17	Z9867-WSB	BCW GW PARALLEL LINKAGE TUBE	2
18	Z0867-WSD	BCW FRONT GW BOLT 1-1/4	1
19	FLW114	WASHER LOCK 1-1/4	1
20	FLW34	WASHER LOCK 3/4	8
21	FNT34	NUT HX 3/4	8
22	FLW12	WASHER LOCK 1/2	2
23	FNT114	NUT HX 1-1/4	1
24	FHC12312GR8	BOLT HXCP 1/2 X 3-1/2 GR8	1
25	FTS12134	SCREW SET 1/2 X 1-3/4 CUP	1
26	Z0326F	NYLATRON 3-1/2 OD X 1.8 ID X 3	2
27	Z0205X	NYLATRON 4.937 OD X 4.52 ID X 8	1
28	Z0867P	BUSHING 2 OD X 1.25 ID X 6	1
29	Z0322-WSA	BCW LIGHT GW SPINDLE ASSY.	1
30	Z0247C	SPINDLE (803) FRONT GW	1
31	Z0868-WS	BCW FRONT GW YOKE	1
32	QPPB873320	BCW TOP LINK MONSTER CAT 3	1
33	FHC01512	BOLT HXCP 1 X 5-1/2	2
34	FHC017	BOLT HXCP 1 X 7	2
35	QPPBRES0107	TOP LINK END CAT 2	4
36	Z0323M	NYLATRON 8 OD X 5 ID X 3/16	1
37	QPPB3008	BUSHING 1-1/4 OD X 1 ID X 2	5
38	FNT1	NUT HX 1	4

REAR GAUGE WHEEL (WING)



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REAR GAUGE WHEEL (WING)

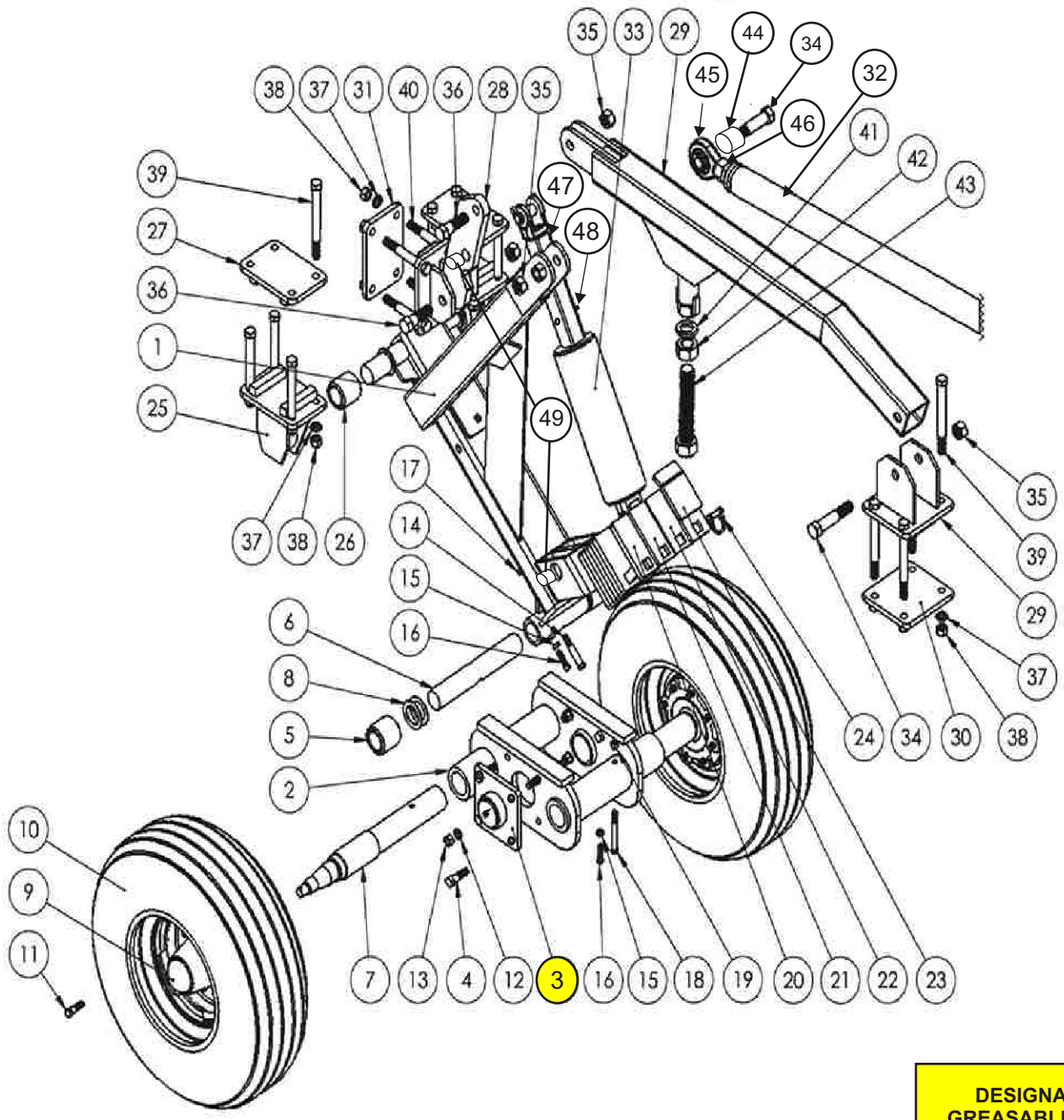
PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Z0864-WS	BCW REAR AXLE (WING)	1
2	(PAGE 21)	HUB (803) 6-BOLT	1
3	(PAGE 20)	WHEEL & TIRE	1
4	FLB916112	BOLT LUG 9/16 X 1-1/2 FINE	6
5	FHC12312GR8	BOLT HXCP 1/2 X 3-1/2 GR8	1
6	FNT12J	NUT HX 1/2 JAM	1
7	FTS12134	SCREW SET 1/2 X 1-3/4 CUP	1
8	FNT12J	NUT HX 1/2	1
9	Z0205T	DEPTH STOP 3/4 X 3 X 6-1/2	6
10	Z0205S	DEPTH STOP 1/2 X 3 X 6-1/2	1
11	Z0205R	DEPTH STOP 1/4 X 3 X 6-1/2	1
12	Z0205-WSG	DEPTH STOP BCW	1
13	QPP38134LP	PIN LOCK 3/8 X 1-3/4	1
14	Z0326-WS	BCW GW MOUNT	2
15	Z0326F	NYLATRON 3-1/2 OD X 1.8 ID X 3	2
16	Z3751-WSA	REC. PLATE W/STOPS 5/8 X 6 X 9	2
17	Z0872-WS	BCW REAR GW TRUSS FMB	1
18	Z3068C	PLATE STEEL 5/8 X 8 X 7-1/2	1
19	Z3751K	PLATE STEEL 5/8" X 6" X 9"	1
20	Z9866-WSA	GW ADJUSTER ROD 89.5 (TUBE ONLY)	1
21	(PAGE 15 - 19)	HYD. CYLINDER	1
22	FNT1W	NUT HX 1 NYLON LOCK	4
23	FHC01312	BOLT HXCP 1 X 3-1/2	2
24	FHC01512	BOLT HXCP 1 X 5-1/2	2
25	FLW34	WASHER LOCK 3/4	18
26	FNT34	NUT HX 3/4	18
27	FHC34812	BOLT HXCP 3/4 X 8-1/2	12

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
28	FHC34612	BOLT HXCP 3/4 X 6-1/2	4
29	Z0271-WSA	BCW REAR GW WING TRUSS	1
30	Z0271-WSC	BCW REAR GW FMB FOR TRUSS	1
31	FFW34	WASHER FLAT 3/4	4
32	FHC345	BOLT HXCP 3/4 X 5	2
33	Z0247D Z0247E	SPINDLE 2-3/16 X 19 (803) SINGLE SPINDLE 2-3/16 X 30 (803) DUAL	1
34	Z0271-WSB	BCW REAR GW WING SLIDE	1
35	FLW112	WASHER LOCK 1-1/2	1
36	FNT112	NUT HX 1-1/2	1
37	Z0271-WSE	BCW REAR GW TRUSS 1-1/2 BOLT	1
38	QPPB3008	BUSHING 1-1/4 OD X 1 ID X 2	1
39	QPPBRE1826	TOP LINK END (CAT3)	2
40	FNT138GR8	NUT HX 1-3/8 GR8 Z	2
41	Z0271-WSF	BCW REAR GW TRUSS 5/8 BOLT	1
42	FNT58	NUT HX 5/8	3
43	PCYR125100100	CLEVIS FINGER BUSHING	2

REAR GAUGE WHEEL (CENTER)

PCYR125100100
Finger Bushing
1-1/4" x 1"



DESIGNATES GREASABLE PART SEE (PAGE 37) FOR ZERK LOCATIONS

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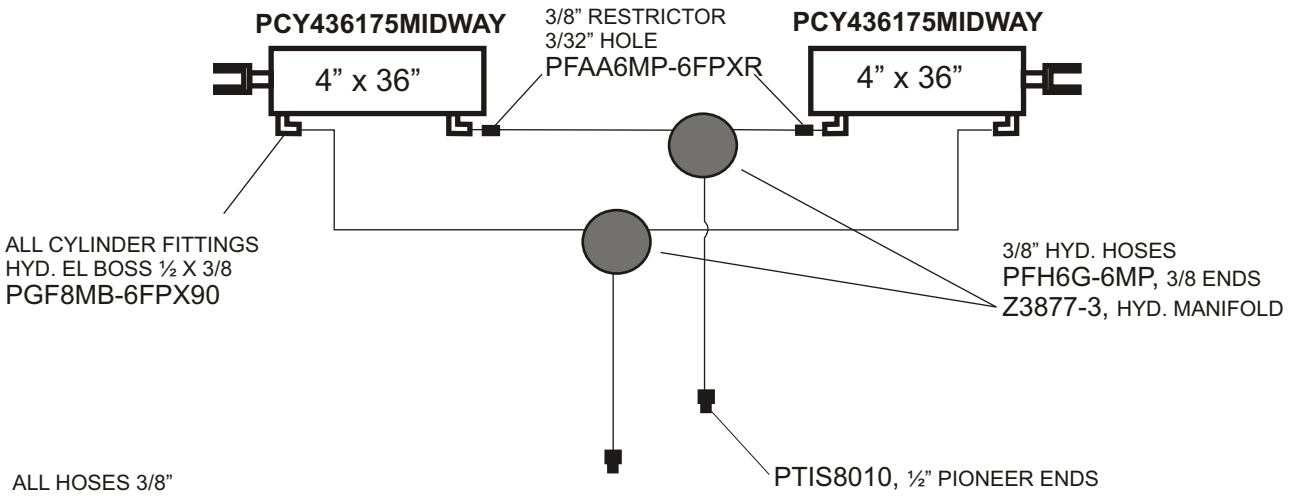
REAR GAUGE WHEEL (CENTER)

PARTS LIST

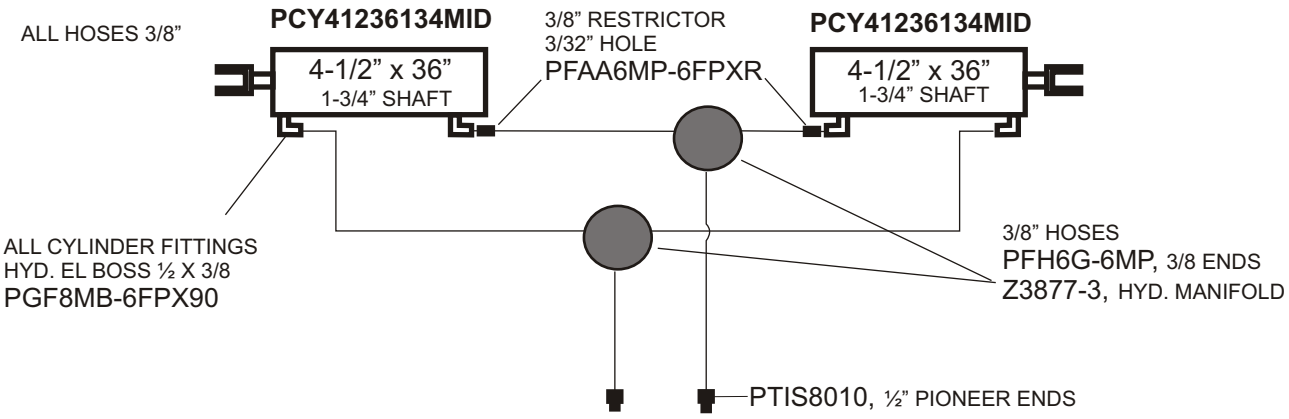
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Z0865-WS	BCW REAR AXLE (CNTR)	1
2	Z0205-WSA	BCW SPINDLE BOX	1
3	Z0205-WSF	BCW BEARING CAP	2
4	FHC58212	BOLT HXCP 5/8 X 2-1/2	8
5	Z0326H	NYLATRON 3-1/2"OD X 1.8"ID X 3"	2
6	Z0865Q	COLD ROLL 2" X 14" (1045)	1
7	Z0247Q	SPINDLE 2-3/4" X 23" (821)	2
8	DPA25	MACH. BUSH. 3"OD X 2"ID (14GA)	4
9	(PAGE 21)	HUB (821) 8-BOLT	2
10	(PAGE 20)	WHEEL & TIRE	2
11	FLB9162	BOLT LUG 9/16 X 2 FINE	16
12	FLW58	WASHER LOCK 5/8	8
13	FNT58	NUT HX 5/8	8
14	FHC12312GR8	BOLT HXCP 1/2" X 3-1/2" GR8	1
15	FNT12J	NUT JAM 1/2	3
16	FTS12134	SCREW SET 1/2 X 1-3/4	3
17	FNT12	NUT HX 1/2	1
18	FHC12412GR8	BOLT HXCP 1/2" X 4-1/2" GR8	2
19	FNT12W	NUT HX 1/2 NYLON LOCK	2
20	Z0205T	DEPTH STOP 3/4 X 3 X 6-1/2	6
21	Z0205S	DEPTH STOP 1/2 X 3 X 6-1/2	1
22	Z0205R	DEPTH STOP 1/4 X 3 X 6-1/2	1
23	Z0205-WSG	DEPTH STOP BCW	1
24	QPP38134LP	PIN LOCK 3/8 X 1-3/4	1
25	Z0326-WS	BCW GW MOUNT	2

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
26	Z0326F	NYLATRON 3-1/2 OD X 1.8 ID X 3	2
27	Z3751-WSA	REC. PLATE W/STOPS 5/8 X 6 X 9	2
28	Z0872-WS	BCW REAR GW TRUSS FMB	1
29	Z0272-WSA	BCW REAR GW TRUSS (CENTER)	1
30	Z3068C	PLATE STEEL 5/8 X 8 X 7-1/2	1
31	Z3751K	PLATE STEEL 5/8 X 6 X 9	1
32	Z9866-WSA	GW ADJUSTER ROD 89.5	1
33	(PAGE 15 - 19)	HYD. CYLINDER	1
34	FHC01512GR8	BOLT HXCP 1 X 5-1/2 GR8	2
35	FNT1W	NUT HX 1 NYLON LOCK	4
36	FHC01312GR8	BOLT HXCP 1 X 3-1/2 GR8	2
37	FLW34	WASHER LOCK 3/4	16
38	FNT34	NUT HX 3/4	16
39	FHC34812	BOLT HXCP 3/4 X 8-1/2	12
40	FHC34612	BOLT HXCP 3/4 X 6-1/2	4
41	FLW112	WASHER LOCK 1-1/2	1
42	FNT112	NUT HX 1-1/2	1
43	Z0271-WSE	BCW REAR GW TRUSS 1-1/2 BOLT	1
44	QPPB3008	BUSHING 1-1/4 OD X 1 ID X 2	1
45	QPPBRE1826	TOP LINK END (CAT3)	2
46	FNT138GR8	NUT HX 1-3/8 GR8 Z	2
47	Z0014E	CYLINDER,ROAD STOP 2 X 5	1
48	QPP51622LPR	PIN LOCK 5/16 F/ROAD STOP	1
49	PCYR125100100	CLEVIS FINGER BUSHING	2

FOLD PACKAGE 31’ - 34’
3 - SECTION MACHINES



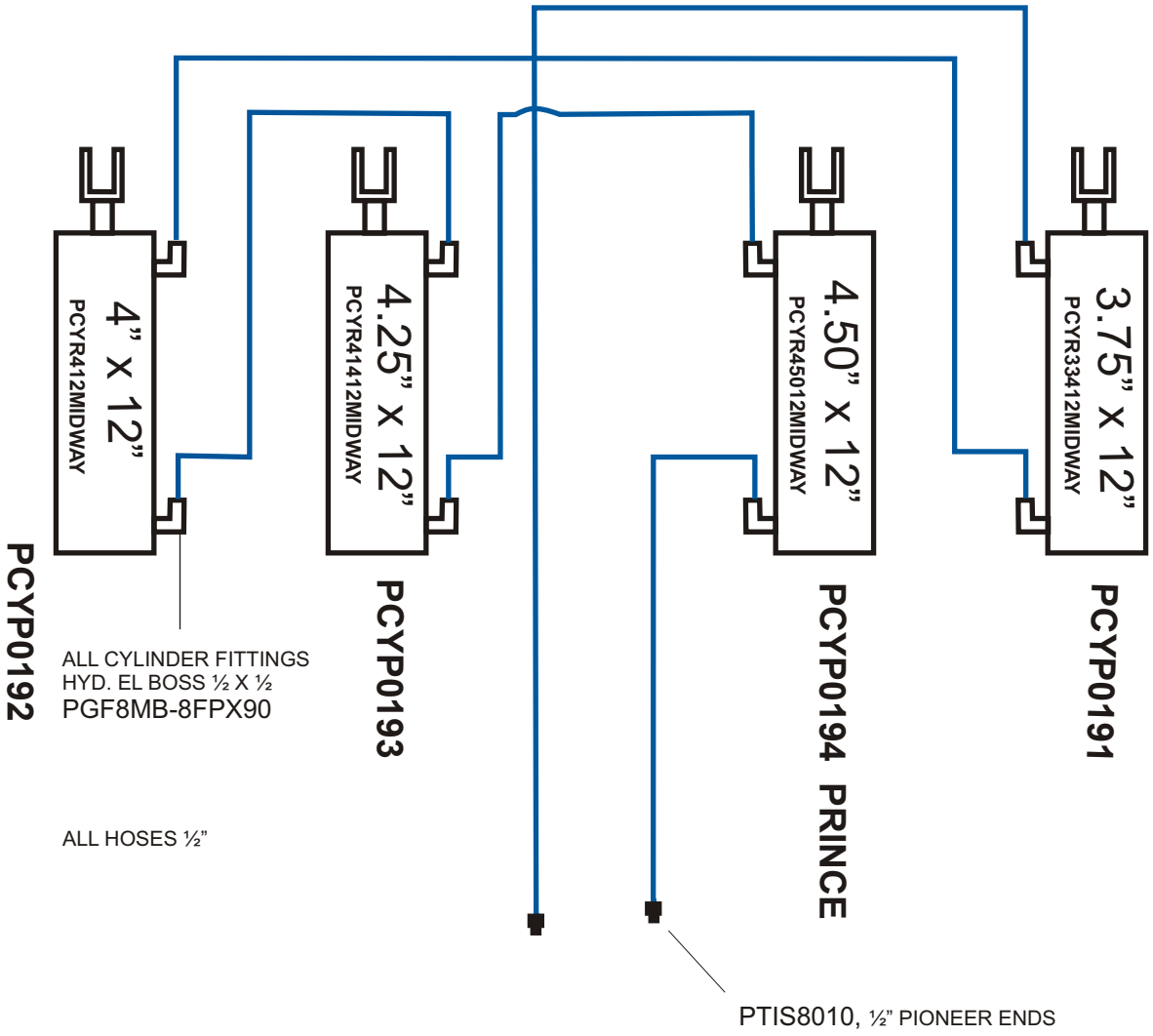
FOLD PACKAGE 37’ - 41’
3 - SECTION MACHINES



CAUTION: If wing cylinders must be removed with wings in folded position, be sure to chain wings together to prevent accidental wing fall on you or others. Before reinstalling, cylinder must be fully charged with oil. See Replacing and Bleeding Cylinders in this section.

LIFT PACKAGE 31’ - 41’
3 - SECTION MACHINES

PCYP194

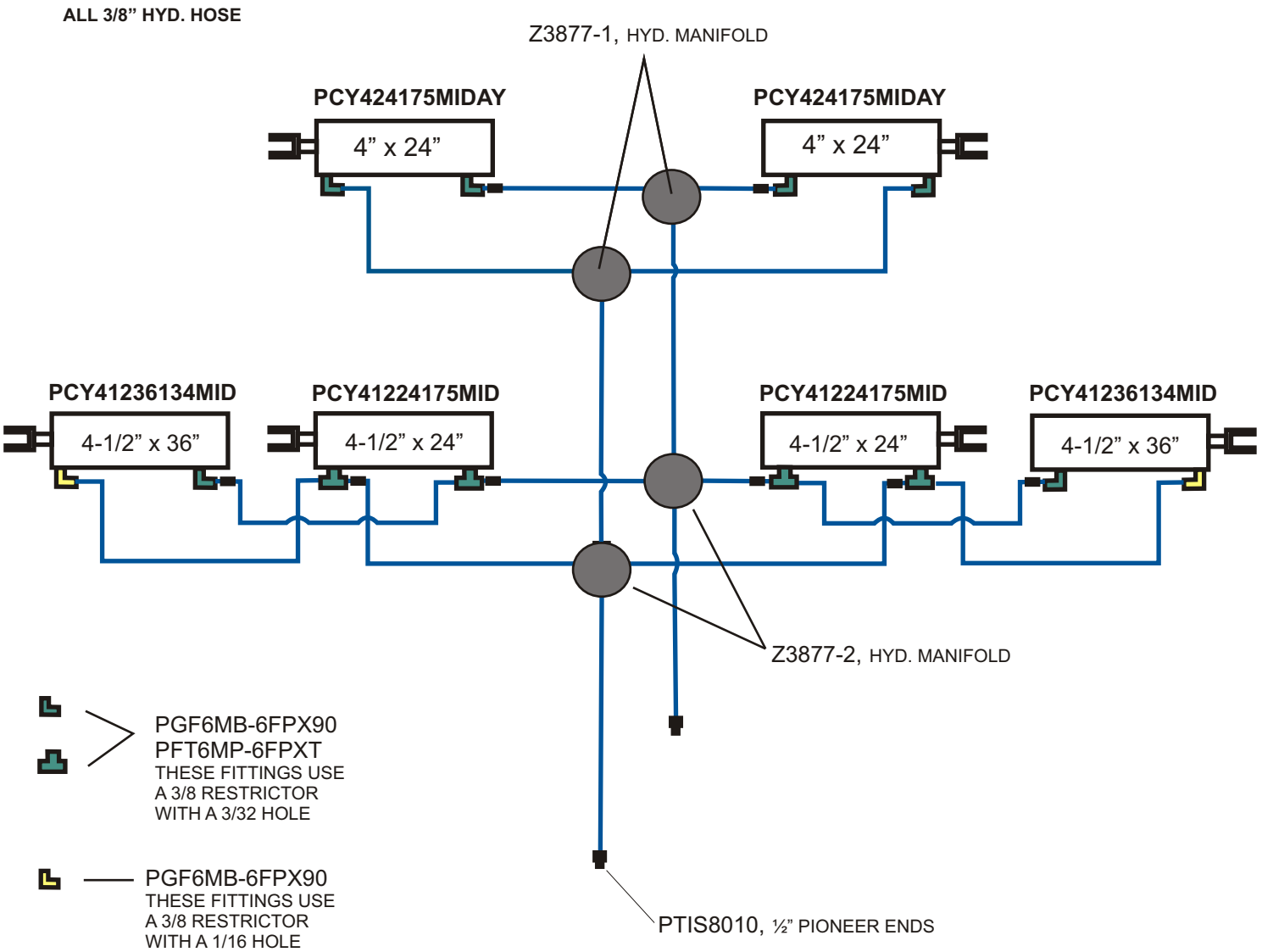


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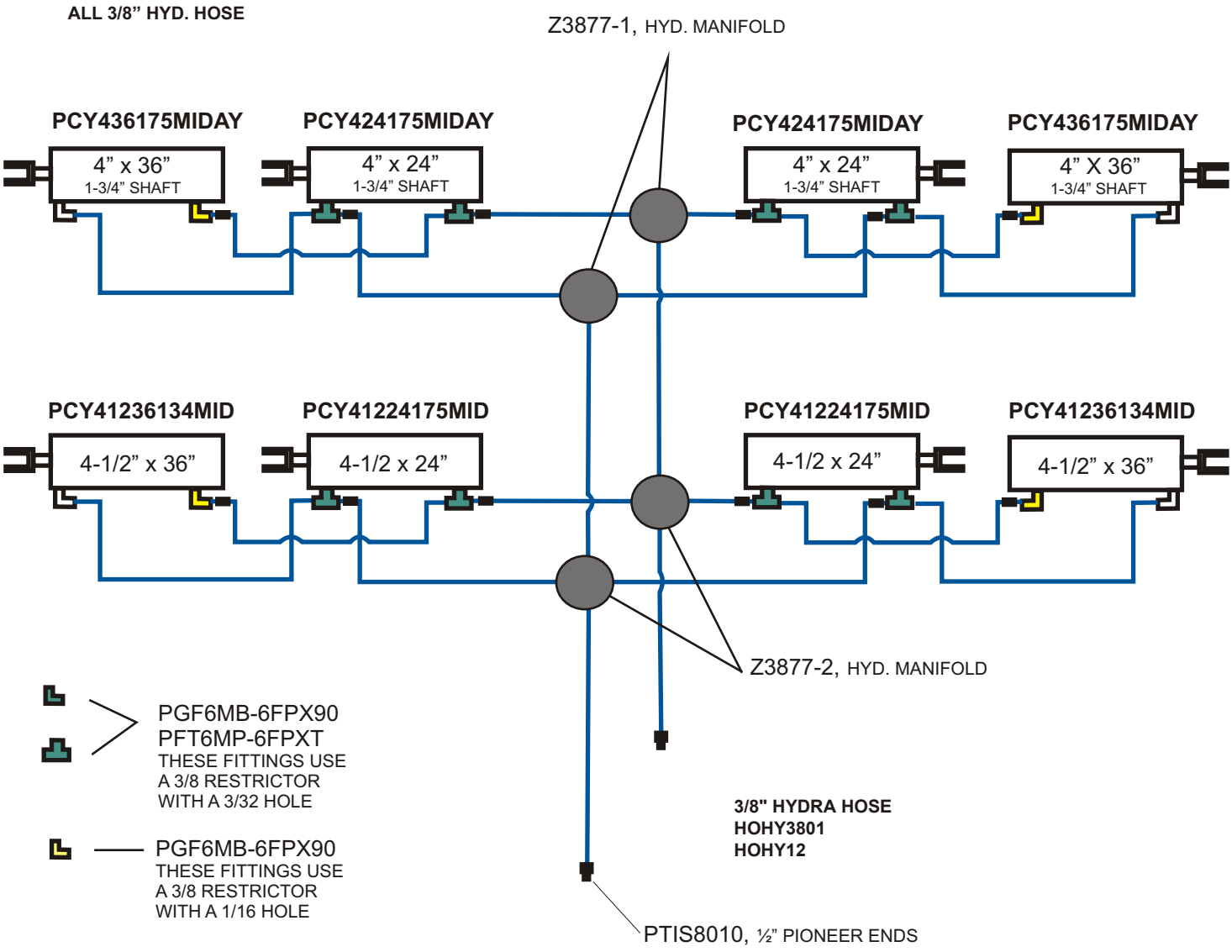
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FOLD PACKAGE 46’ - 49’
5 - SECTION MACHINES
HOSE REPLACEMENT



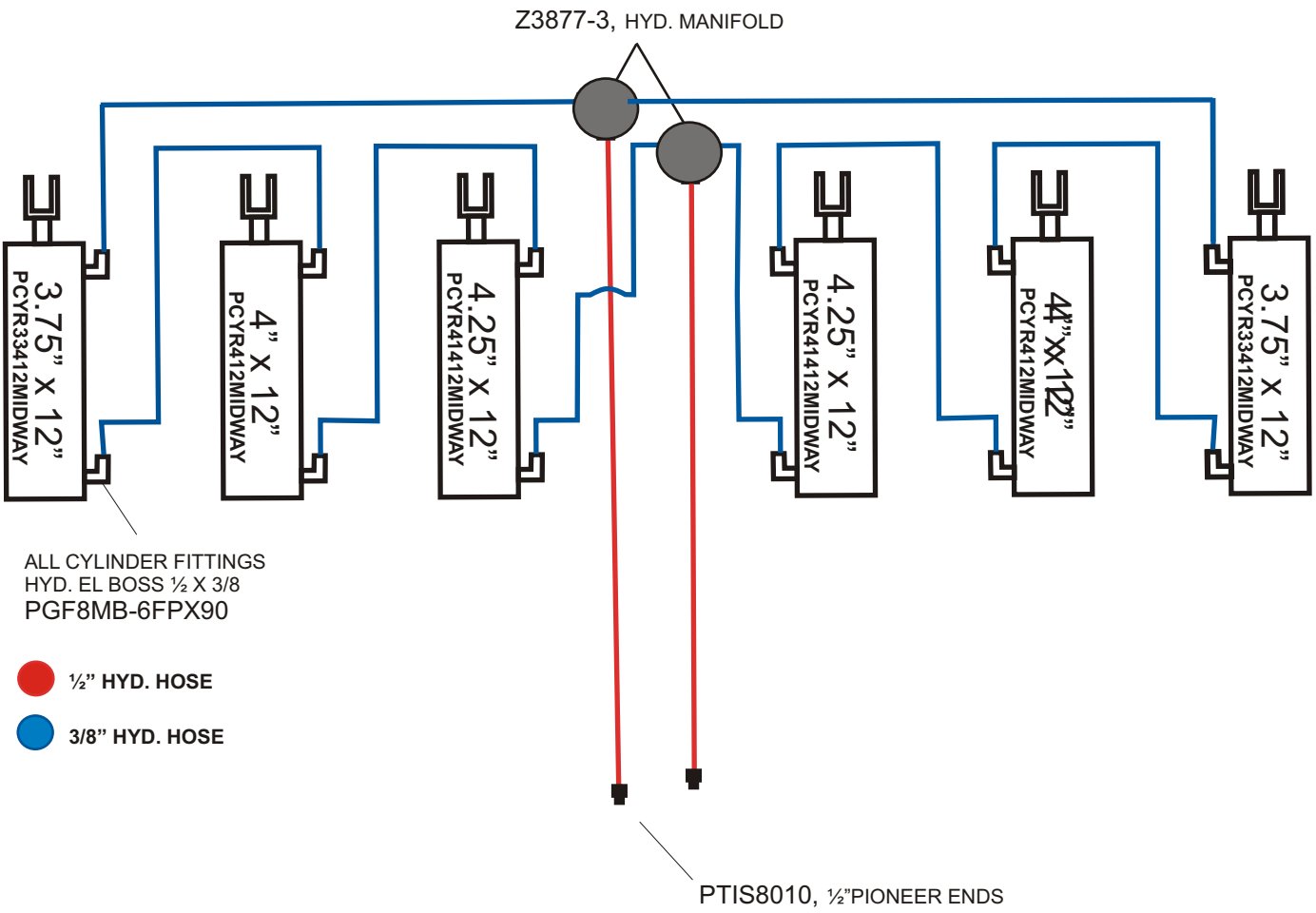
CAUTION: If wing cylinders must be removed with wings in folded position, be sure to chain wings together to prevent accidental wing fall on you or others. Before reinstalling, cylinder must be fully charged with oil. See Replacing and Bleeding Cylinders in this section.

FOLD PACKAGE 54’ - 57’
5 - SECTION MACHINES
HOSE REPLACEMENT



CAUTION: If wing cylinders must be removed with wings in folded position, be sure to chain wings together to prevent accidental wing fall on you or others. Before reinstalling, cylinder must be fully charged with oil. See Replacing and Bleeding Cylinders in this section.

LIFT PACKAGE 46’ - 60’
5 - SECTION MACHINES



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HYDRAULIC SAFETY TIPS

CAUTION: Support Raised Equipment



Always use a safety support when working on, under. Or around the machine

Shut off tractor engine and remove key when working on machine.

If air has been allowed to enter hydraulic hoses or cylinders, bleed hydraulic system before use. If there is a failure in the hydraulic system, unsupported raised equipment could suddenly lower, causing serious personal injury or death.

If support is not available, completely lower the wings and frame.

CAUTION: Avoid High-Pressure Fluids



Escaping fluids under pressure can penetrate skin causing serious injury.

Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into skin must be surgically removed within a few hours or gangrene may result..

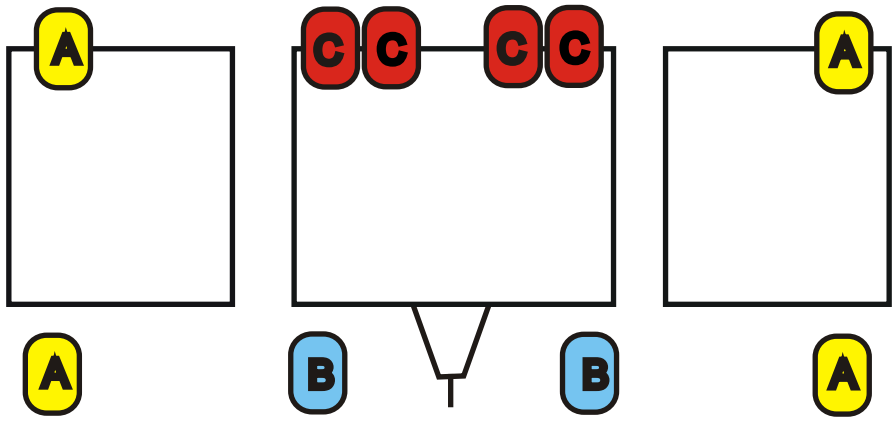
CAUTION: Hydraulic hoses can fail due to physical damage, kinks, age, and exposer. Check hoses regularly, Replace damaged hoses.

1. Fully lower machine and wings (if equipped) and standards.
2. Relieve hydraulic pressure before disconnecting hydraulic lines
3. Disconnect hoses at tractor and from cylinder ports. Cover tractor outlets, cylinder ports and hose ends

CAUTION: Replacing cylinders, If cylinders are not bled as described, wing can drop unexpectedly, causing injury or death.

1. Attach cylinder base end(s) to linkage, but leave rod end(s) detached.
2. Attach all hoses in the hydraulic system.
3. Support cylinder(s) on wooden blocks, so rod(s) can extend and retract without interferance.
4. Connect hoses to tractor. Oil must be hot. Fully extend and retract all cylinders at least two times, maintaining pressure at full extension for at least 30 seconds. Then extend cylinders one more time, maintaining pressure at full extension for 1 minute. This allows all air to escape from cylinders.
5. Attach rod end(s) of cylinders(s) to wings.

3 - SECTION
TIRE & WHEEL CHART

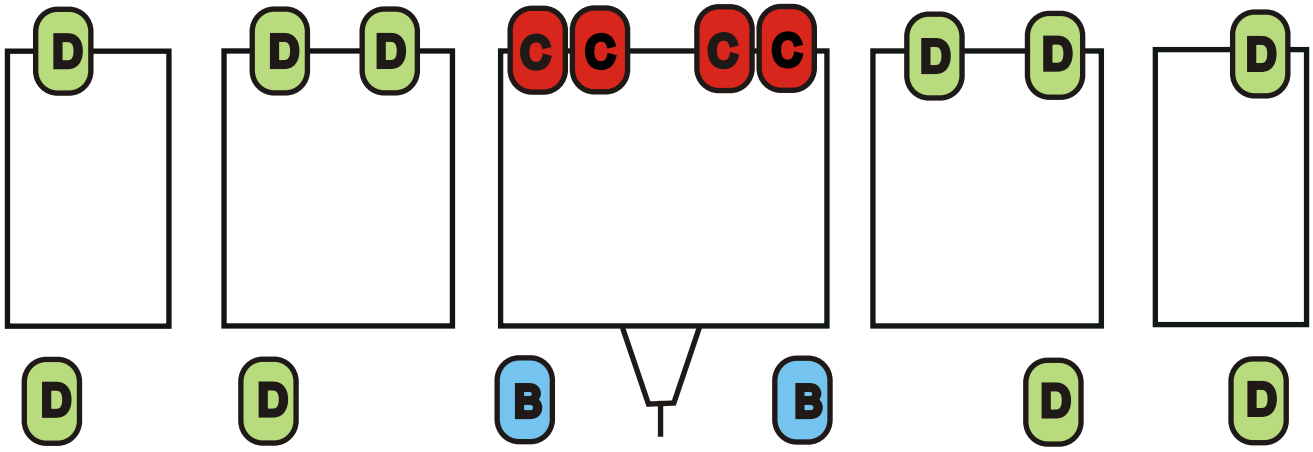


A WTI12L15 - TIRE 12.5 X 15 (10 PLY)
WWH15106 - WHEEL 15 X 10 X 6-BOLT
WHB803A - 803 HUB W/RACES

B WTI12L15HS - TIRE 12.5L X 15FI (12 PLY)
WWH15106 - WHEEL 15 X 10 X 6-BOLT
WHB803A - 803 HUB W/RACES

C WTI12L15HS - TIRE 12.5L X 15FI (12 PLY)
WWH15108 - WHEEL 15 X 10 X 8-BOLT
WHB821A - 821 HUB W/RACES

5 - SECTION
TIRE & WHEEL CHART



B WTI12L15HS - TIRE 12.5L X 15FI (12 PLY)
WWH15106 - WHEEL 15 X 10 X 6-BOLT
WHB803A - 803 HUB W/RACES

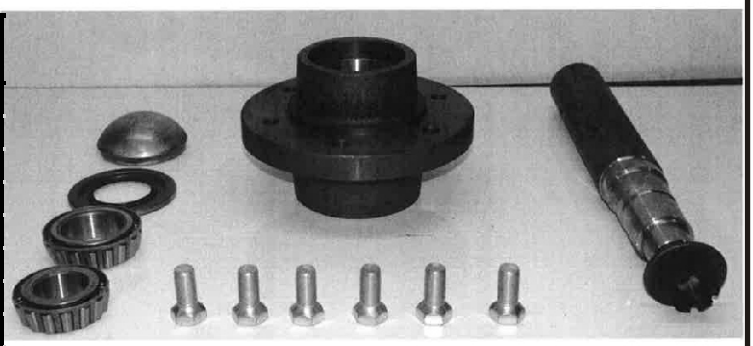
C WTI12L15HS - TIRE 12.5L X 15FI (12 PLY)
WWH15108 - WHEEL 15 X 10 X 8-BOLT
WHB821A - 821 HUB W/RACES

D WTI11L - TIRE 11L X 15 (8 PLY)
WWH1586SP - WHEEL 15 X 8 X
WHB803A - 803 HUB W/RACES

803 HUB

FRONT GW (WING & CENTER)
REAR GW (WING ONLY)

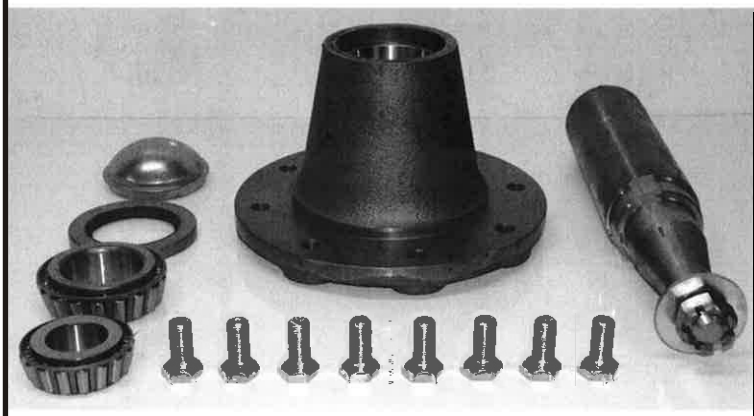
DESCRIPTION	QTY	PART NUMBER
DUST CAP	1	WHB803L
CASTLE NUT	1	FNT78S
WASHER 7/8" (SAE)	1	FFW78W
OUTER BEARING	1	WHB803F
HUB ONLY W/ RACES (6-BOLT)	1	WHB803A
INNER BEARING	1	WHB803D
SEAL	1	WHB803C
LUG BOLT	6	FLB916112
SPINDLE FRONT GW (WING & CENTER)	1	Z0247C
SPINDLE REAR GW SINGLE (WING) SPINDLE REAR GW DUAL (WING)	1	Z0247D Z0247E
NOT PICTURED		
COTTER PIN	1	QPPC182
OUTER RACE	1	WHB803G
INNER RACE	1	WHB803E



803 HUB
(6-BOLT)

821 HUB

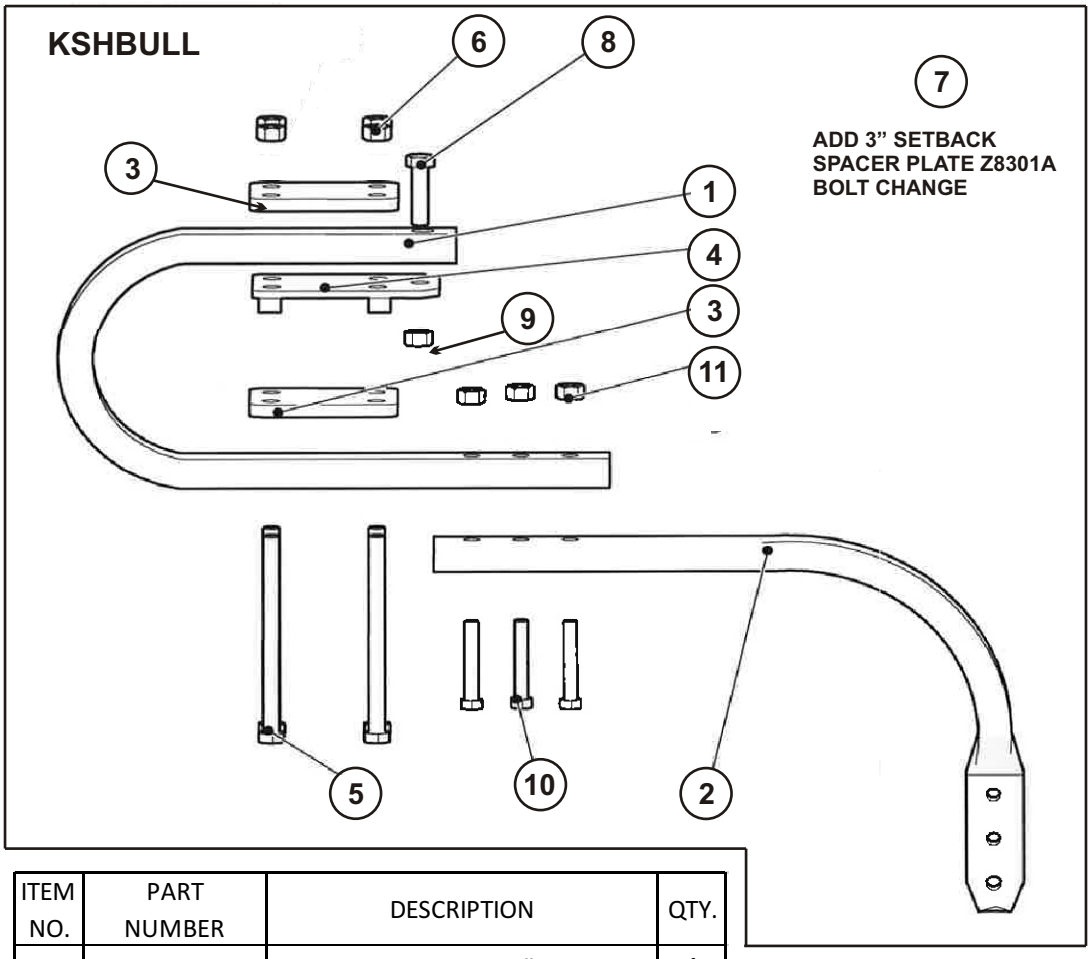
WALKING AXLE
REAR GW (CENTER ONLY)



821 HUB
(8-BOLT)

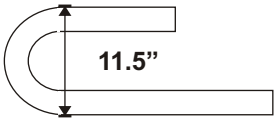
DESCRIPTION	QTY	PART NUMBER
DUST CAP NEW*	1	WHB803L
CASTLE NUT	1	FNT78S
WASHER 7/8 (SAE)	1	FFW78W
OUTER BEARING	1	WHB821F
HUB ONLY W/ RACES (8-BOLT)	1	WHB821A
INNER BEARING	1	WHB821D
SEAL	1	WHB821C
LUG BOLT	8	FLB9162
SPINDLE REAR GW (CENTER ONLY)	1	Z0247Q
NOT PICTURED		
COTTER PIN	1	QPPC182
OUTER RACE	1	WHB821G
INNER RACE	1	WHB821E

BULL SHANK ASSEMBLY

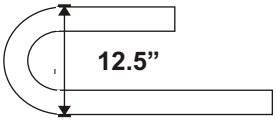


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	KSHBULL1LEE	UPPER BULL SHANK 7" (CURRENT)	1
	KSHBULL1	UPPER BULL SHANK 6" (EARLIER)	1
2	KSHBULL2	LOWER BULL SHANK	1
3	Z3217B	BRACKET PLATE FMB	2
4	Z3217-WSB	BRACKET PLATE W/STOPS FMB	1
5	FHC3410	BOLT HXCP 3/4 X 10	4
6	FNT34ML	NUT HX 3/4 MLOCK	4
7			
8	FHC34234	BOLT HXCP 3/4 X 2-3/4	1
9	FNT34W	NUT HX 3/4 NYLON LOCK	1
10	FHC58334	BOLT HXCP 5/8 X 3-3/4	3
11	FNT58ML	NUT HX 5/8 MLOCK	3

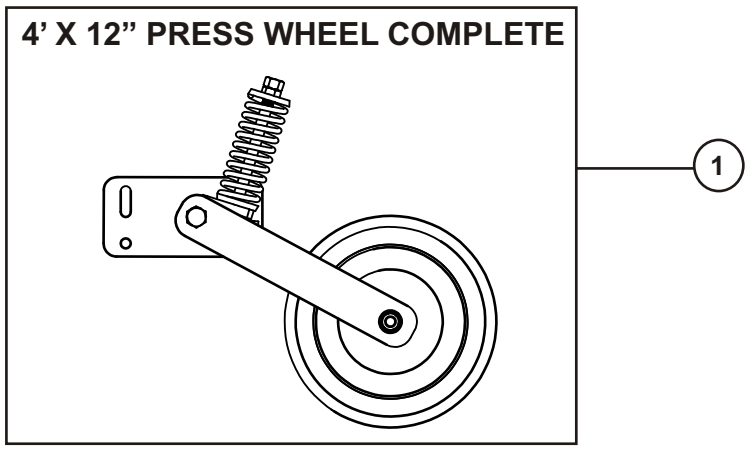
6" UPPER BULL

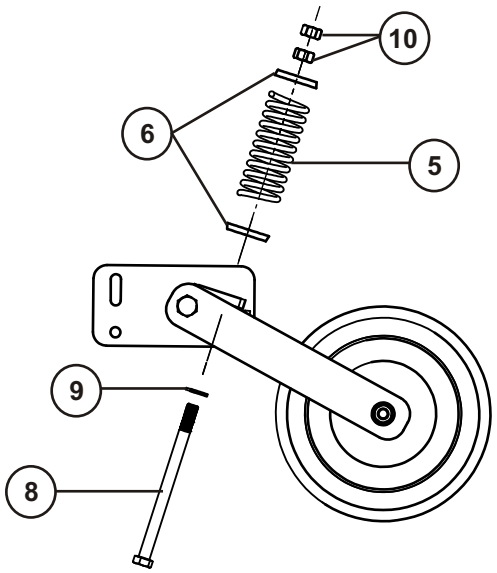


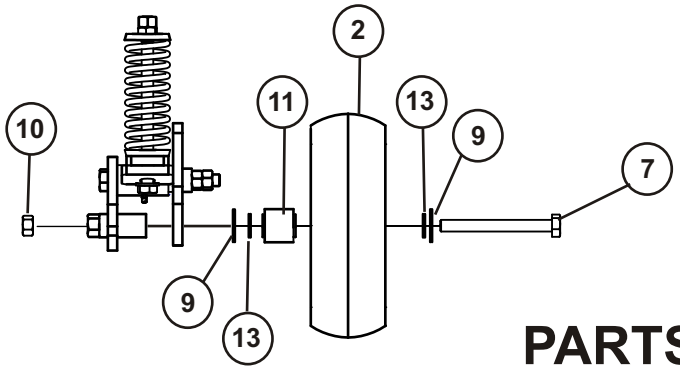
7" UPPER BULL

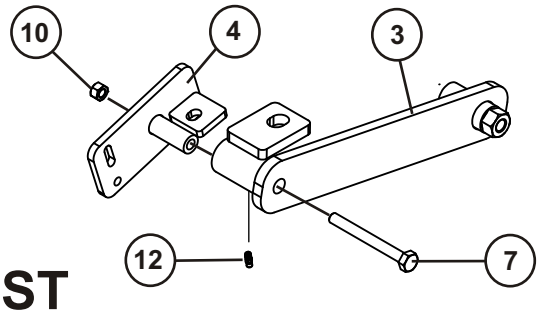


PRESS WHEEL ASSEMBLY







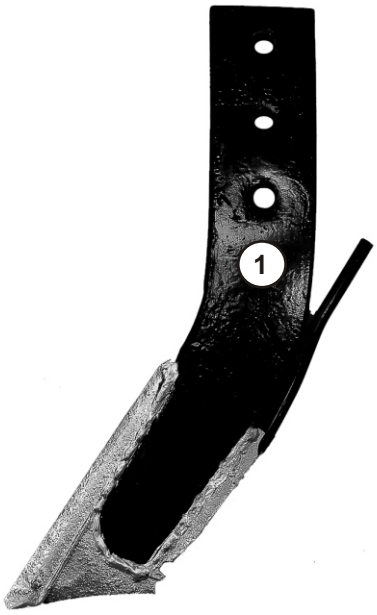


PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	ACOSPW	PRESS WHEEL 4 X 12 COMPLETE	1
2	WHBSSM	PRESS WHEEL ONLY 4 X 12	1
3	Z0051-WSA	ARM PRESS WHEEL	1
4	Z0051-WSB	FMB PRESS WHEEL	1
5	MMS15	SPRING F/PRESS WHEEL	1
6	TDFR205DC	CAP F/PRESS WHEEL SPRING	2
7	FHC586	BOLT HXCP 5/8 X 6	2
8	FHC588	BOLT HXCP 5/8 X 8	1
9	FFW58W	WASHER FLAT 5/8 SAE	3
10	FNT58	NIT HX 5/8	4
11	WHBSSD	BEARING REPLACEMENT	1
12	MMM14	GREASE ZERK 1/4	1
13	TDFRSW	SPACER WASHER 18GA	2

BULL SHANK ATTACHMENTS

BIG COUNTRY



BIG COUNTRY GOPHER



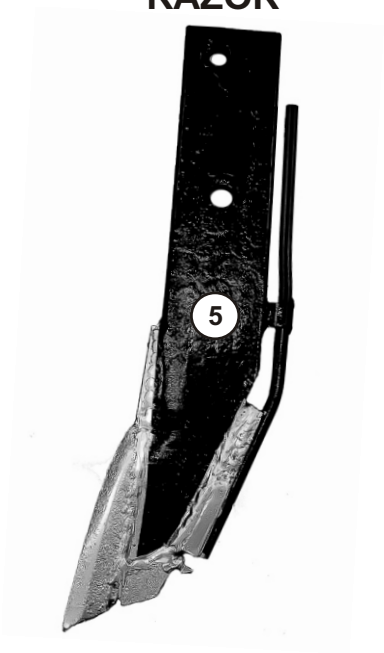
MT-60



BIG COUNTRY RIPPER



BIG COUNTRY RAZOR



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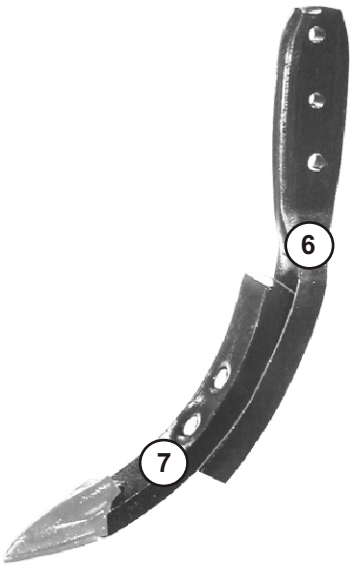
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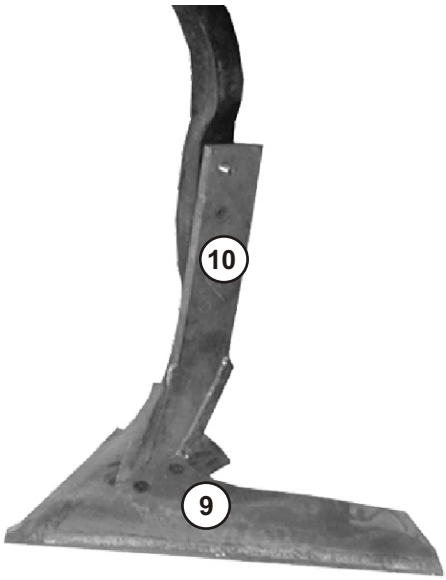
BULL SHANK ATTACHMENTS

PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION
1	KKNC60A	BIG COUNTRY KNIFE 3/8 TUBE (PICTURED)
	KKNC60A3DTP	BIG COUNTRY KNIFE DT 3/8 X 3/4 W/DUAL T.P.
2	KKNG60A	BIG COUNTRY GOPHER 3/8 TUBE (PICTURED)
	KKNG60A3DTP	BIG COUNTRY GOPHER DT 3/8 X 3/4 W/DUAL T.P.
3	KKNMT60A	BIG COUNTRY MT-60 3/8 TUBE (PICTURED)
	KKNMT60A3DTP	BIG COUNTRY MT-60 DT 3/8 X 3/4 W/DUAL T.P.
4	KKNG60RIP	BIG COUNTRY RIPPER W/GOPHER INSERT (PICTURED)
5	KKNRZ60A	BIG COUNTRY RAZOR 3/8 TUBE (PICTURED)
	KKNRZ60A3DTP	BIG COUNTRY RAZOR DT 3/8 X 3/4 W/DUAL T.P.
6	KSHC1200A	SHANK ADAPTOR (50 DEGREE)
7	TCS8XH	SPIKE CHROME CAP WAKO 1"
8	TSCP10HHFC	SWEEP PEN 10" 5/16" HF W/CAP
9	KKNC561SAHHFC	SWEEP FF 22 STD 5/16 HF CAP
10	KKNC560BC KKNC560BCNH3 KKNC560BCNH3A3	FROG F/FF BCW (2 HOLE) FROG F/FF BCW (2 HOLE) W/NH3 TUBE 3/8 FROG F/FF BCW (2 HOLE) W/NH3 DT 3/8 X 3/4







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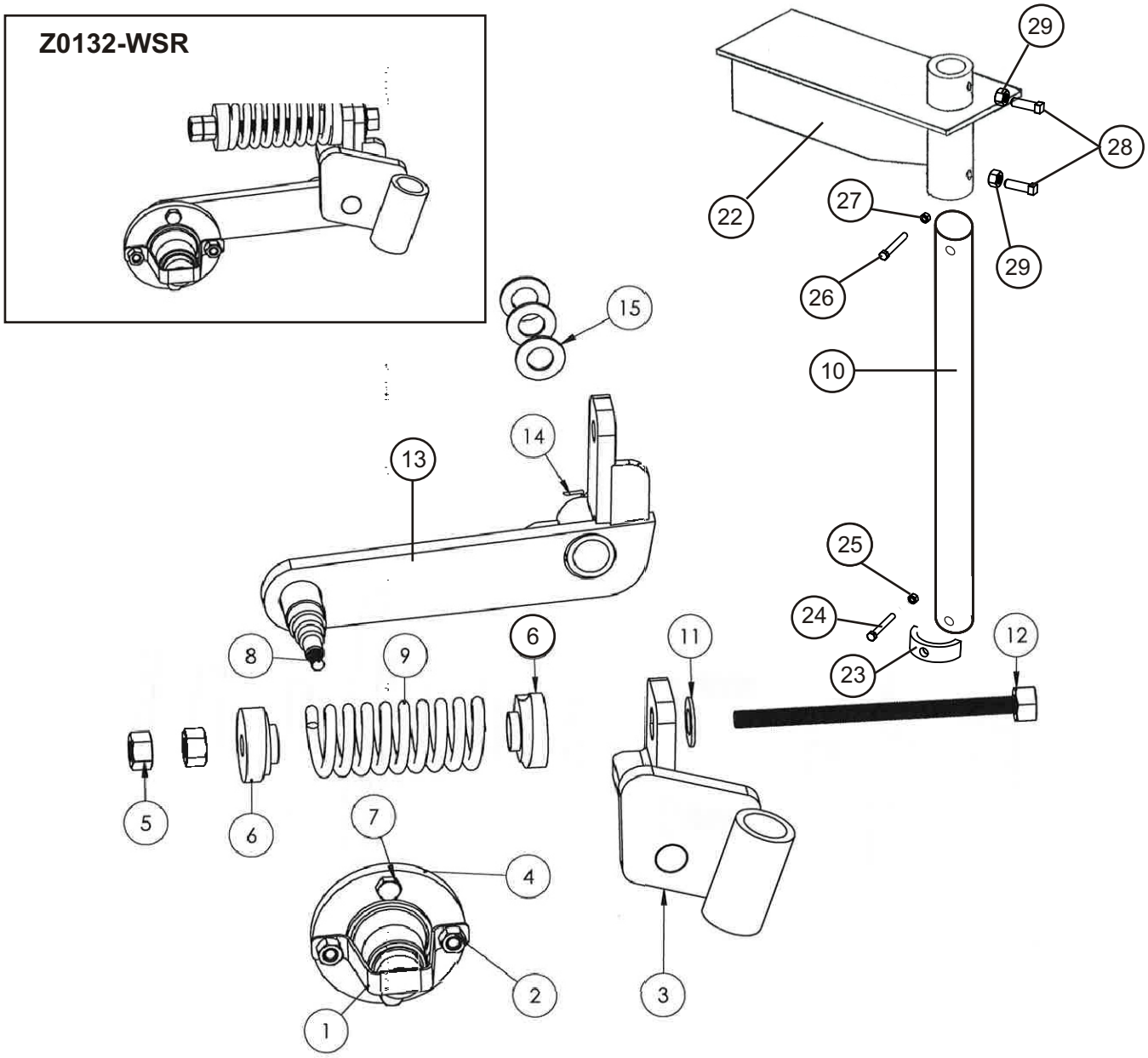
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COULTER

SPRING LOAD STANDARD BRACKET

Z0132-WSR



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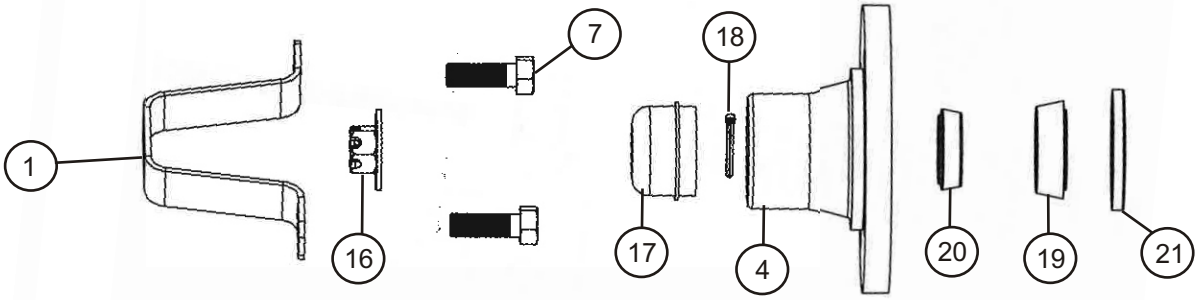
COULTER

SPRING LOAD STANDARD BRACKET

PARTS LIST

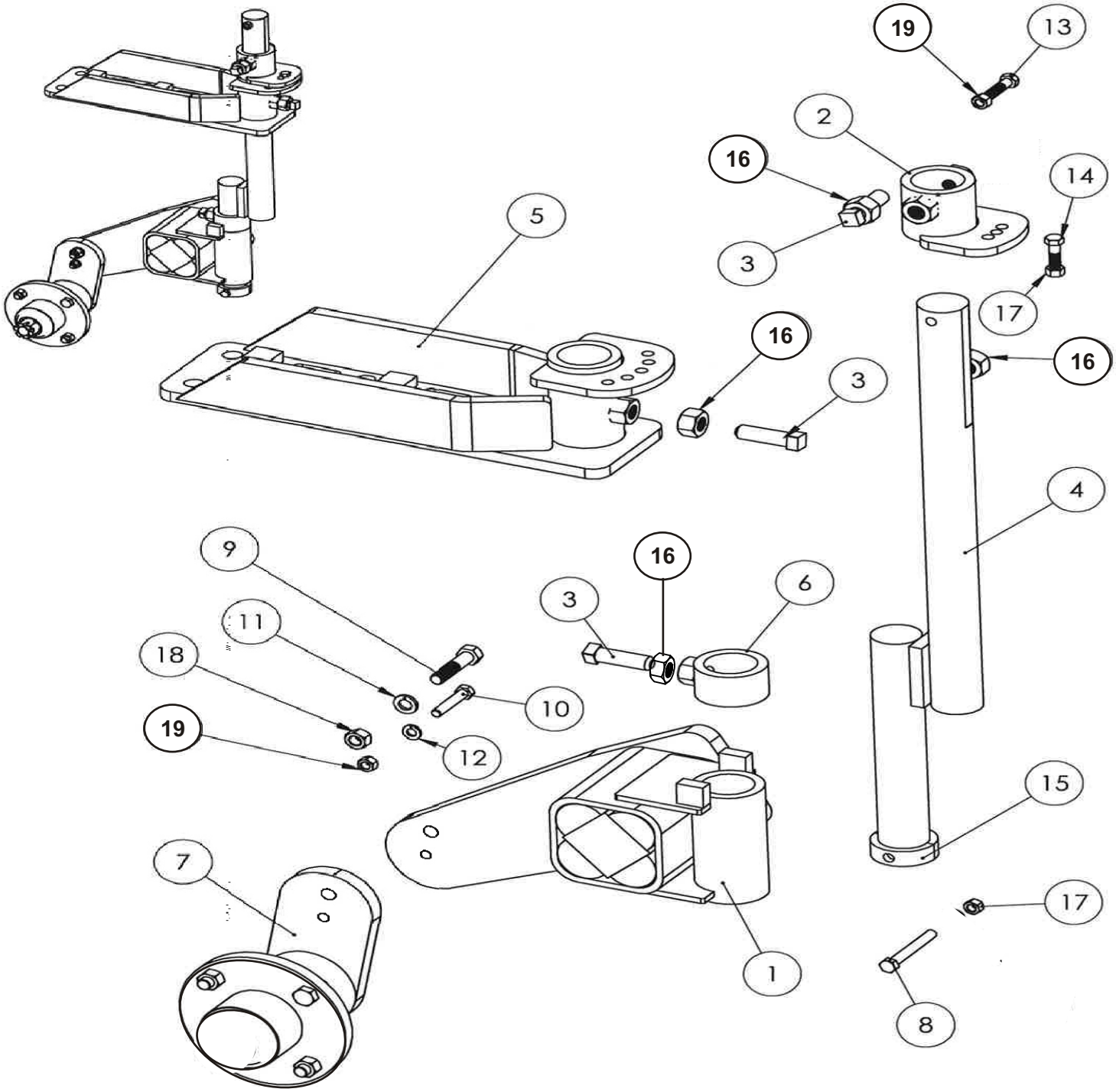
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	Z0132P	RETAINER DUST CAP (411)	1
2	FNT12F	NUT HX 1/2 FINE	2
3	Z0132-WSBR	BODY ASSEMBLY	1
4	WHB411A	HUB W/RACES (411)	1
5	FNT34	NUT HX 3/4	2
6	MMSC1	CAP SPRING	2
7	FHC12114F	BOLT HXCP 1/2 X 1-1/4 FINE	4
8	ITEM NO. 13	WELDMENT PART	1
9	MMS16	SPRING HEAVY	1
10	Z0110-WSB	COULTER SHAFT 26-1/4	1
11	FFW34W	WASHER FLAT 3/4 SAE	1
12	Z0132-WSD	BOLT ALL THREAD 3/4 X 12-3/4	1
13	Z0132-WSAR	ARM ASSEMBLY W/SPINDLE	1
14	QPPC3162	COTTER PIN 3/16 X 2	1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
15	DPA15 / DPA16	MACHINE BUSHING	
16	WHB411H	NUT CASTLE (5/8"SLOTTED)	1
17	WHB411L	DUSTCAP (411)	1
18	QPPC182	COTTER PIN 1/8 X 2	1
19	WHB411D	BEARING INNER (411)	1
20	WHB411F	BEARING OUTER (411)	1
21	WHB411C	SEAL (411)	1
22	Z0117-ASM	BRACKET UPPER BULL SHANK MOUNT	1
	FUB5821116	U-BOLT BRACKET UPPER BULL SHANK	2
	Z0121-ASM4	BRACKET FRAME MOUNT 4" HORZ.	1
	Z0121D	REC. PLATE BRACKET FRAME MOUNT	1
23	Z2006C	SPACER SHAFT	2
24	FHC383	BOLT HXCP 3/8 X 3	1
25	FNT38T	NUT HX 3/8 TOP LOCK	1
26	FHC38212	BOLT HXCP 3/8 X 2-1/2	1
27	FNT38	NUT HX 3/8	2
28	FTS582Z	SCREW SET 5/8 X 2 CUP	2
29	FNT58	NUT HX 5/8	2



COULTER

425 TORSION BULLSEYE BRACKET



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425 TORSION BULLSEYE BRACKET

PARTS LIST

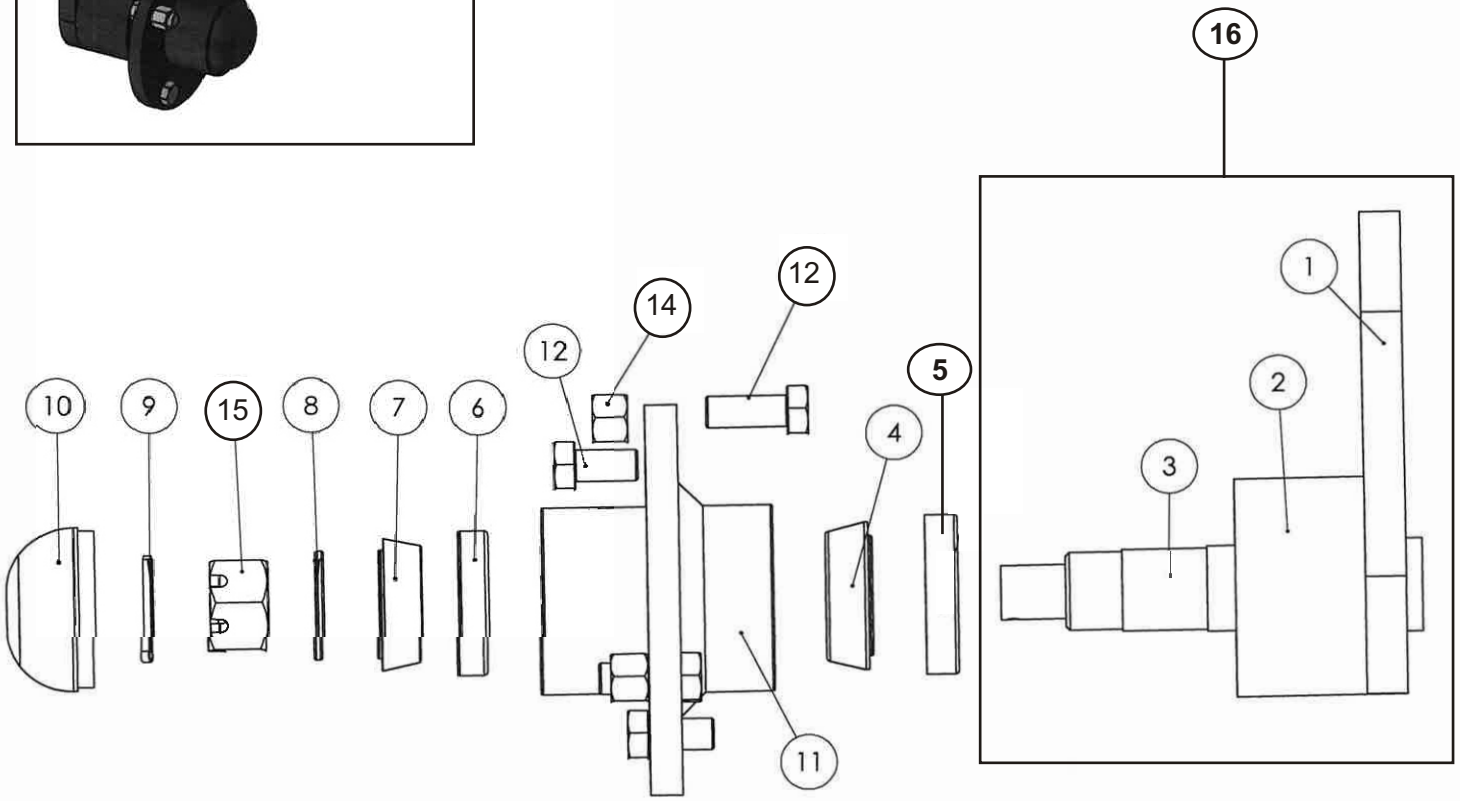
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	Z2007-WSA	425 TORSION ASSY.	1
2	Z2012-WSE	ADJUSTER BULLSEYE	1
3	FTS582Z	SCREW SET 5/8 X 2 CUP	3
4	Z2012-WSC	SHAFT BULLSEYE COULTER	1
5	Z2012-WSA FUB5821116	BRACKET BULLSEYE UPPER BULL SHANK MOUNT U-BOLT BRACKET UPPER BULL SHANK	1 2
6	Z2012-WSG	BUSHING 2-1/2 OD X 1-13/16 ID X 1-1/2	1
7	Z2007-WSB	SHEAR PLATE & HUB ASSY.	1
8	FHC383	BOLT HXCP 3/8 X 3	1
9	FHC12214	BOLT HXCP 1/2 X 2-1/4	1
10	FHC382	BOLT HXCP 3/8 X 2	1
11	FLW12	WASHER LOCK 1/2	1
12	FLW38	WASHER LOCK 3/8	1
13	FHC38112	BOLT HXCP 3/8 X 1-1/2	1
14	FHC38112	BOLT HXCP 3/8 X 1-1/2	1
15	Z2006C	TORSION SHAFT SPACER	2
16	FNT58	NUT HX 5/8	3
17	FNT38T	NUT HX 3/8 TOP LOCK	4
18	FNT12	NUT HX 1/2	1
19	FNT38	NUT HX 3/8	3

COULTER

425 TORSION
SHEAR PLATE & HUB



Z2007-WSB



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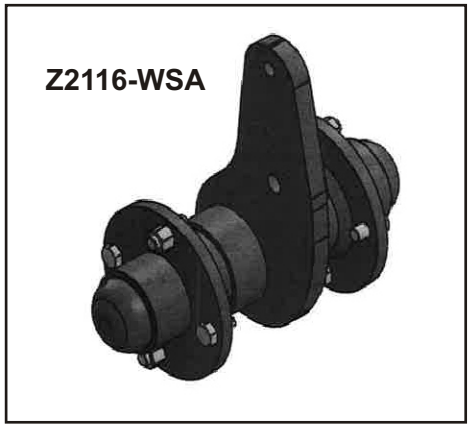
COULTER

425 TORSION SHEAR PLATE & HUB

PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	ITEM NO. 16	WELDMENT PART	1
2	ITEM NO. 16	WELDMENT PART	1
3	ITEM NO. 16	WELDMENT PART	1
4	WHB611D	INNER BEARING (709)	1
5	WHB611E	INNER RACE (709)	1
6	WHB611G	OUTER RACE (709)	1
7	WHB611F	OUTER BEARING (709)	1
8	FFW78W	WASHER 7/8 (SAE)	1
9	QPPC182	COTTER PIN 1/8 X 2	1
10	WHB611L	DUST CAP (709)	1
11	WHB2488A	HUB (2488) 4-BOLT	1
12	FHC12114F	BOLT HXCP 1/2 X 1-1/4 FINE	4
13	WHB611C	SEAL (709)	1
14	FNT12F	NUT HX 1/2 FINE	4
15	FNT78S	CASTLE NUT 7/8	1
16	Z2007-WSC	TORSION 709 SPINDLE ASSY.	1

VERTICAL TILLAGE
SM-75



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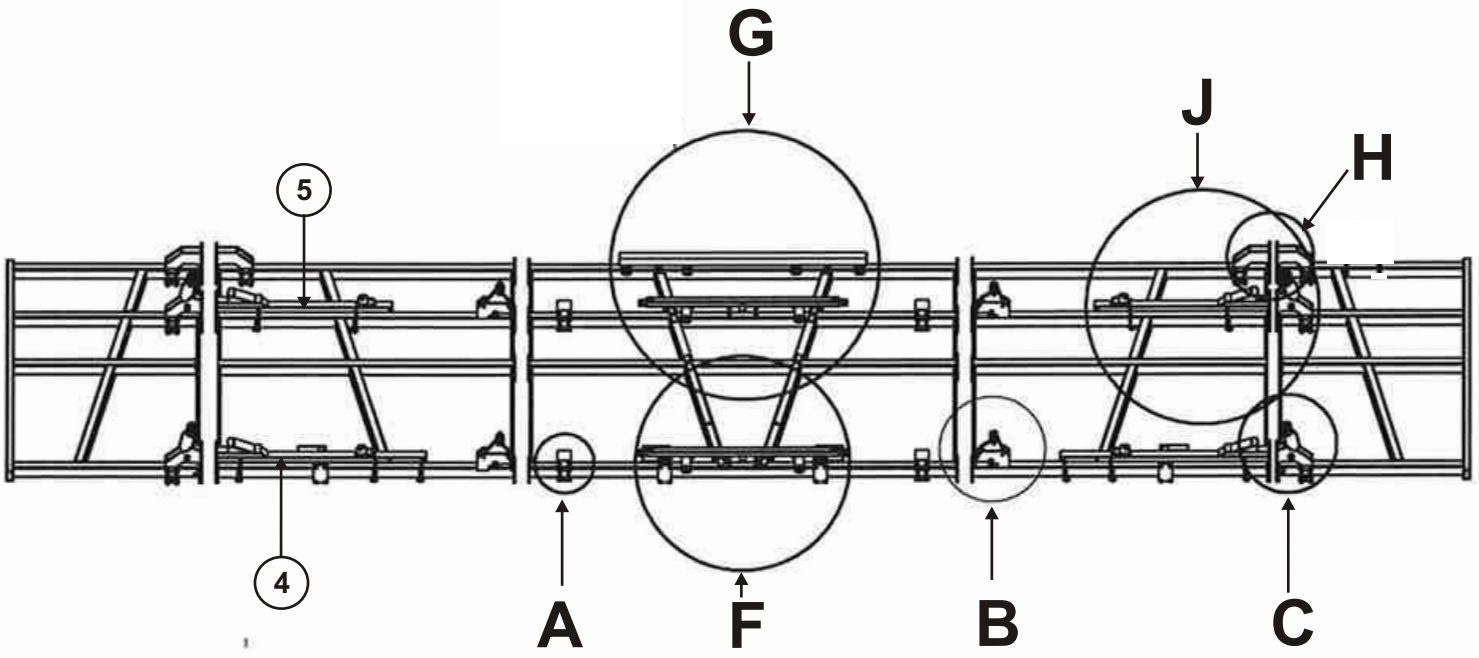
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VERTICAL TILLAGE
SM-75

PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	ITEM NO. 17	WELDMENT PART	1
2	ITEM NO. 17	WELDMENT PART	1
3	ITEM NO. 17	WELDMENT PART	1
4	WHB2488A	HUB (2488) 4-BOLT	2
5	WHB611L	DUST CAP (709)	2
6	WHB611C	SEAL (709)	2
7	WHB611E	INNER RACE (709)	2
8	WHB611F	OUTER BEARING (709)	2
9	WHB611G	OUTER RACE (709)	2
10	ITEM NO. 17	WELDMENT PART	1
11	FFW78W	WASHER FLAT 7/8 (SAE)	2
12	FNT12F	NUT HX 1/2 FINE	4
13	FHC12114	BOLT HXCP 1/2 X 1-1/4	4
14	FNT78S	CASTLE NUT 7/8	2
15	WHB611D	INNER BEARING (709)	2
16	QPPC182	COTTER PIN 1/8 X 2	2
17	Z2116-WS	VERTICAL TILL SM75 W/SPINDLE	1

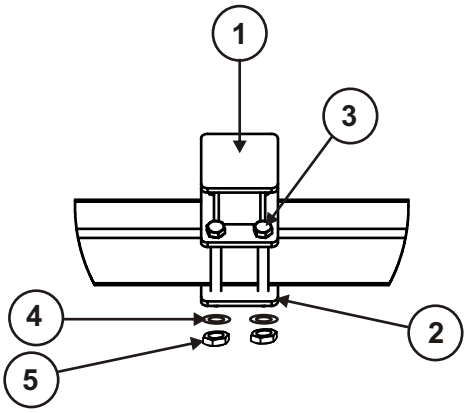
FRAME / PARTS



PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1		BCW CENTER 190" (CENTER) BCW CENTER 160" (CENTER)	
2		BCW WING (INNER)	
3		BCW WING (OUTER)	
4	Z9003-WSA	5 SECTION 180 FOLD (BULL)	
5	Z9002-WSA	5 SECTION 180 FOLD (BULL)	
	(DETAIL A)		
1	Z0863-WSA	BCW LANDING PAD	1
2	Z3008I	REC. PLATE 1/2 X 6 X 7	1
3	FHC588	BOLT HXCP 5/8 X 8	4
4	FLW58	WASHER LOCK 5/8	4
5	FNT58	NUT HX 5/8	4

DETAIL A



Big Country by WAKO®

5606 N. Hwy 81
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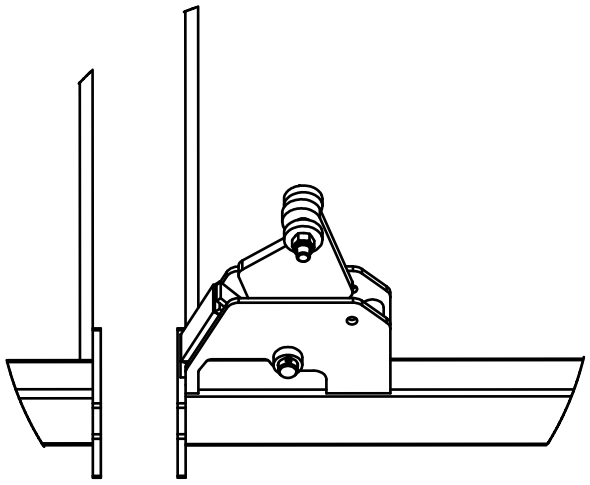
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FRAME / PARTS

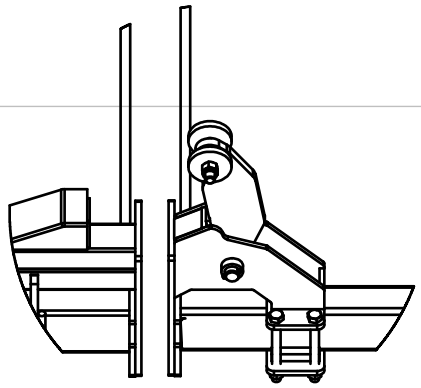
PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
	(DETAIL B)		
1	Z0861-WSA Z0861-WSC	ANCHOR BCW (3-SECT. - 36") ANCHOR BCW (5-SECT. - 24")	1
2	Z0254-WSA	COLD ROLL 1-1/2 X 8 1045	1
3	DPB412	SPRING ROLL PIN 3/8 X 2-1/2	2
4	Z0212G	BIG ROLLER FOR CYLINDER	2
5	FHC01612GR8	BOLT HXCP 1 X 6-1/2 GD8	1
6	FNT1W	NUT HX 1 NYLON LOCK	1
	(DETAIL C)		
1	Z0861-WSB	ANCHOR OUTSIDE (5-SECT. 24")	1
2	Z0254-WSA	COLD ROLL 1-1/2 X 8 1045	1
3	DPB412	SPRING ROLL PIN 3/8 X 2-1/2	2
4	Z0212G	BIG ROLLER FOR CYLINDER	2
5	FHC01612GR8	BOLT HXCP 1 X 6-1/2 GD8	1
6	FNT1W	NUT HX 1 NYLON LOCK	1
7	FHC34812	BOLT HXCP 3/4 X 8-1/2	4
8	FLW34	WASHER LOCK 3/4	4
9	FNT34	NUT HX 3/4 ZINC	4
10	Z9008-ASM	5 SECTON 180 FOLD	1
11	Z3751-WSA	RECEIVER PLATE W/1"STOPS	1

DETAIL B

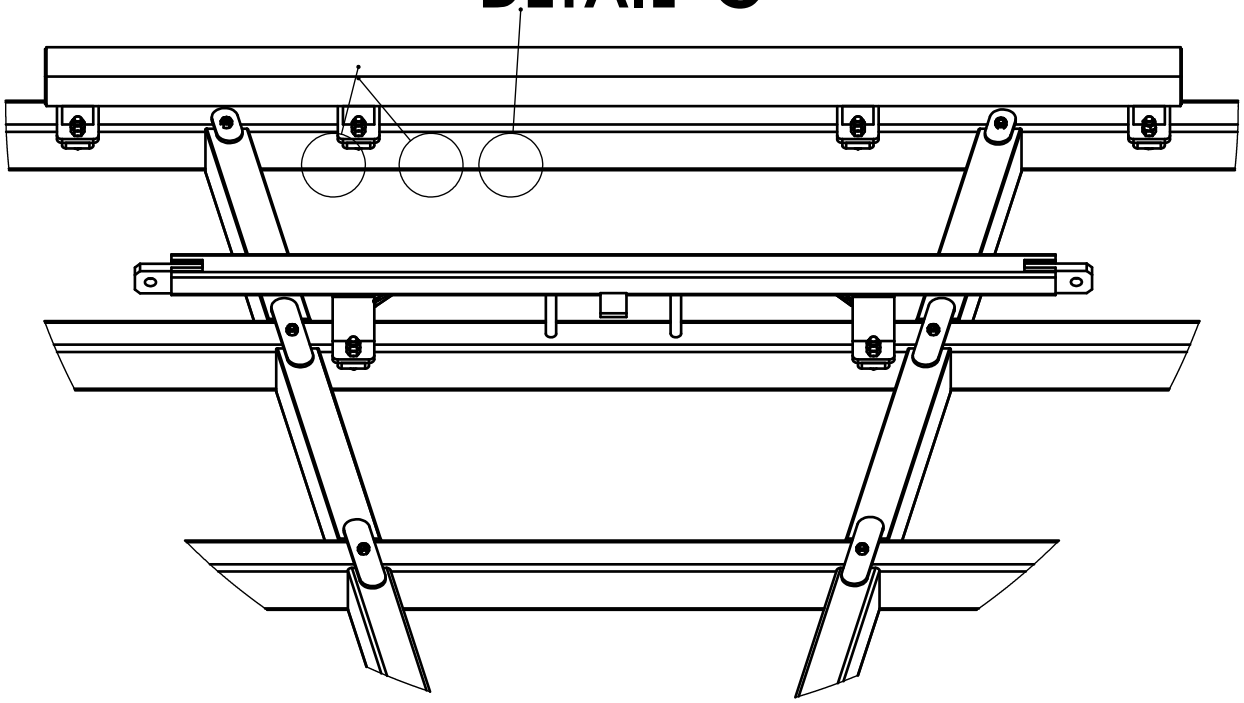


DETAIL C

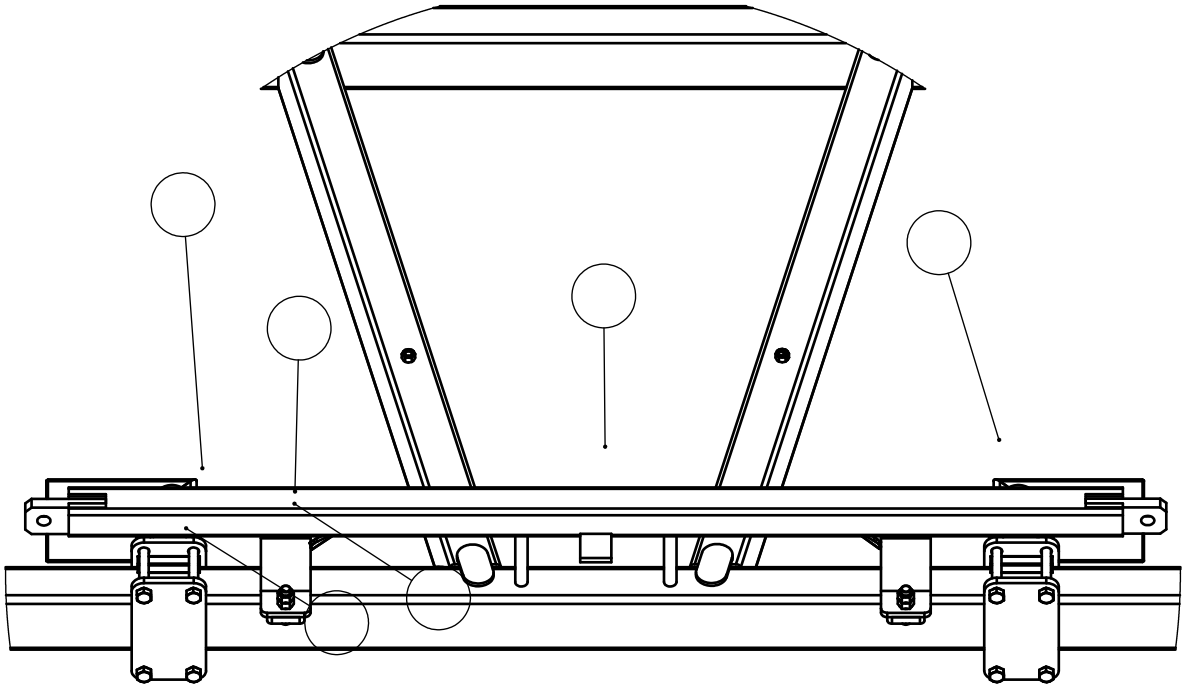


FRAME / PARTS

DETAIL G



DETAIL F

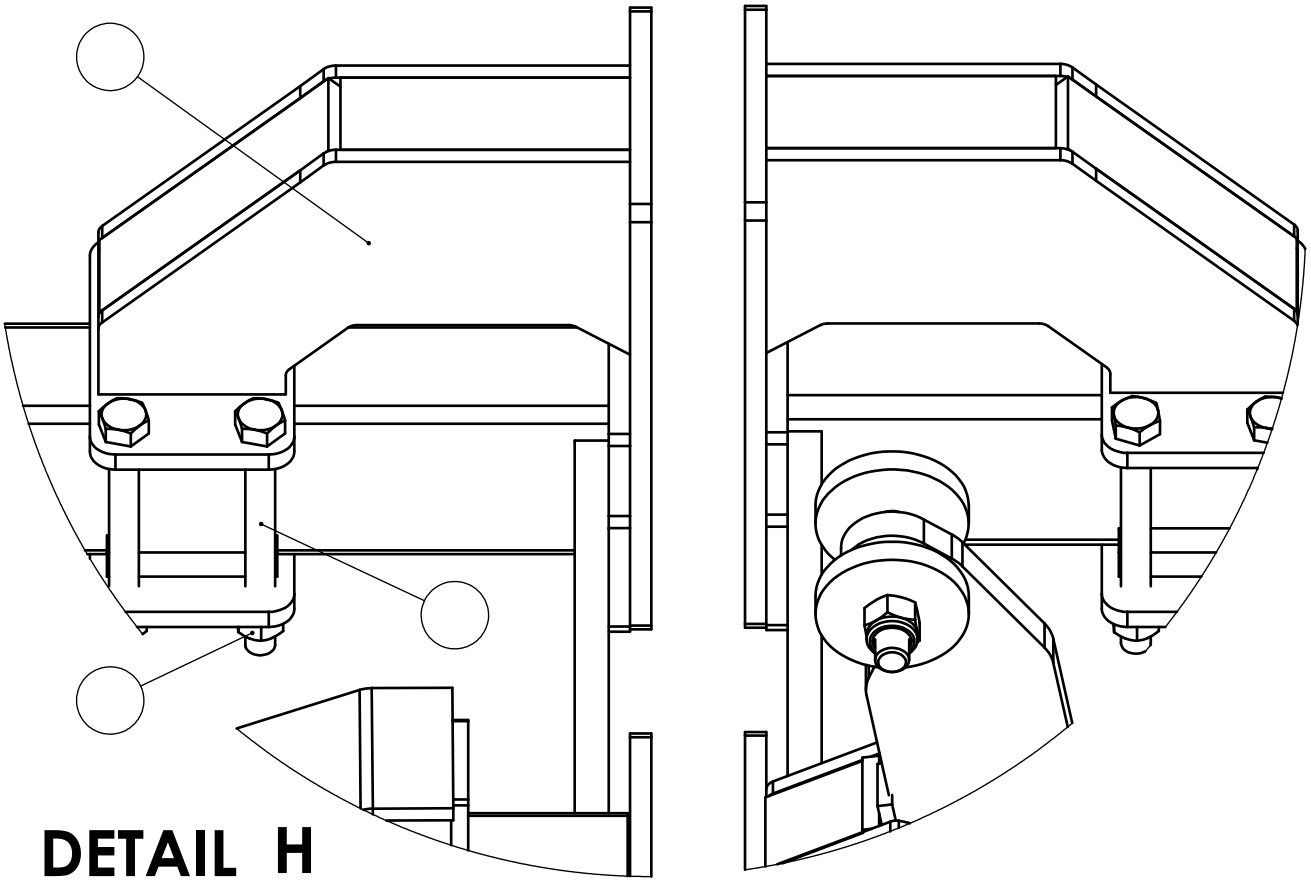


FRAME / PARTS

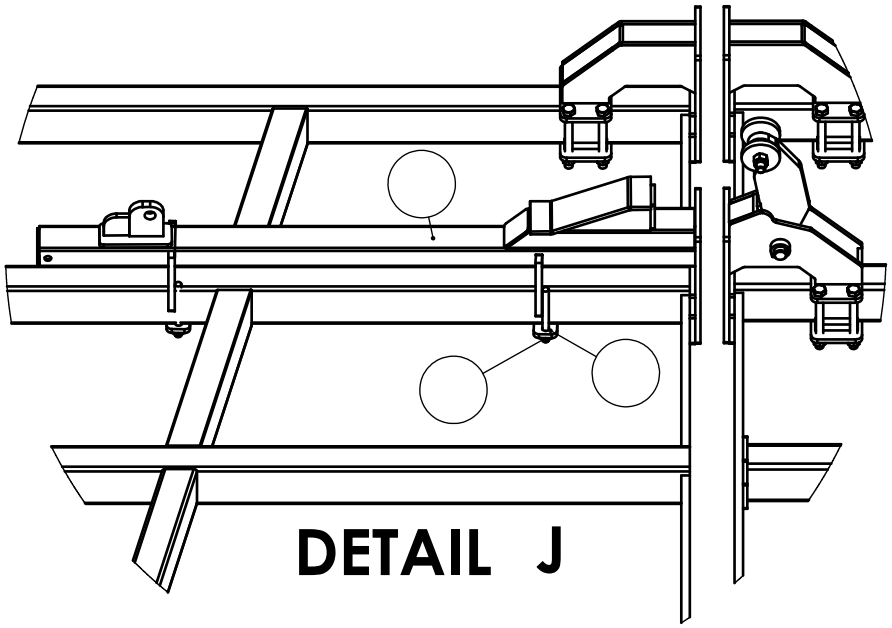
PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
	(DETAIL G)		
1	Z0871-WS	BCW FRAME TRUSS	1
2	Z0039-B	PLATE STEEL 3/4 X 4 X 7	4
3	FHC34812	BOLT HXCP 3/4 X 8-1/2	8
4	FLW34	WASHER LOCK 3/4	8
5	FNT34	NUT HX 3/4	8
6	Z0870-WSB Z0870-WSC Z0870-WSD	BCW WING STAND 190 CENTER 3SEC 57-1/4" BCW WING STAND 160 CENTER 3SEC 33 3/4" BCW WING STAND 190 CENTER 5SEC 60 3/4"	1
7	FHC343GR8	BOLT HXCP 3/4 X 3 GD8	4
8	FNT34GR8	NUT HX 3/4 GD8 YEL ZNC	4
9	FNT34ML	NUT HX 3/4 MLOCK GRC NC	4
	(DETAIL F)		
1	Z0870-WSB Z0870-WSC Z0870-WSD	BCW WING STAND 190 CENTER 3SEC 57-1/4" BCW WING STAND 160 CENTER 3SEC 33 3/4" BCW WING STAND 190 CENTER 5SEC 60 3/4"	1
2	FHC343GR8	BOLT HXCP 3/4 X 3 GD8	4
3	FNT34GR8	NUT HX 3/4 GD8 YEL ZNC	4
4	FNT34ML	NUT HX 3/4 MLOCK GRC NC	4
5	Z9010-ASM	BCW SET BACK BAR L BRACKET	2
6	Z9004-ASM2	BASE PLATE FOR S-T SET BACKBAR	2
7	FHC34612	BOLT HXCP 3/4 X 6-1/2	8
8	FLW34	WASHER LOCK 3/4	8
9	FNT34	NUT HX 3/4	8

FRAME / PARTS



DETAIL H



DETAIL J

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FRAME / PARTS

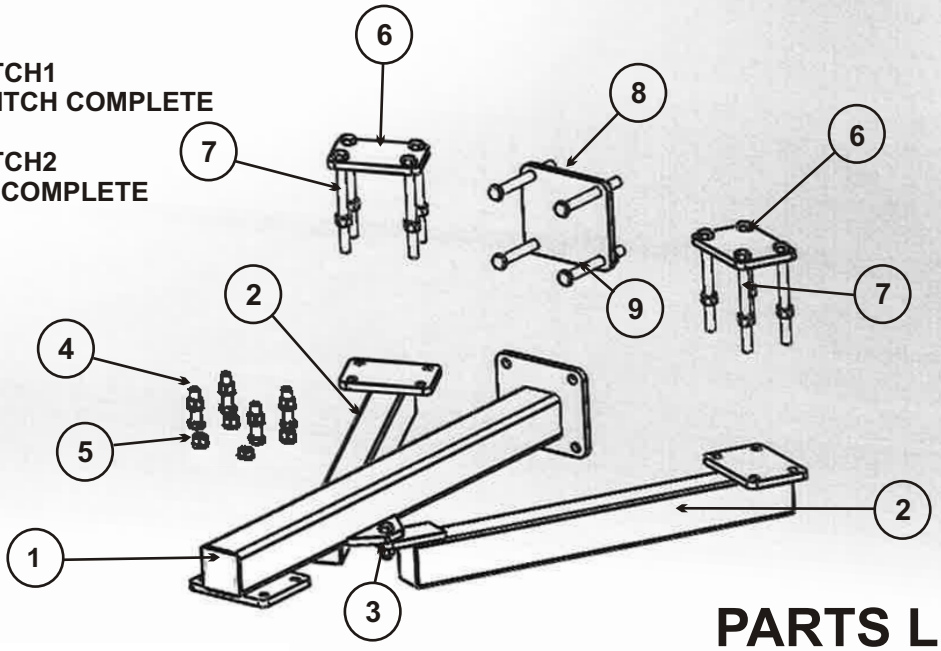
PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
	(DETAIL H)		
1	Z9006-ASM	5 SECTION 180 FOLD	1
2	FHC34812	BOLT HXCP 3/4 X 8-1/2	4
3	FLW34	WASHER LOCK 3/4	4
4	FNT34	NUT HX 3/4	4
5	Z3751-WSA	RECEIVER PLATE W/1"STOPS	1
10			

HEARTLAND HITCH

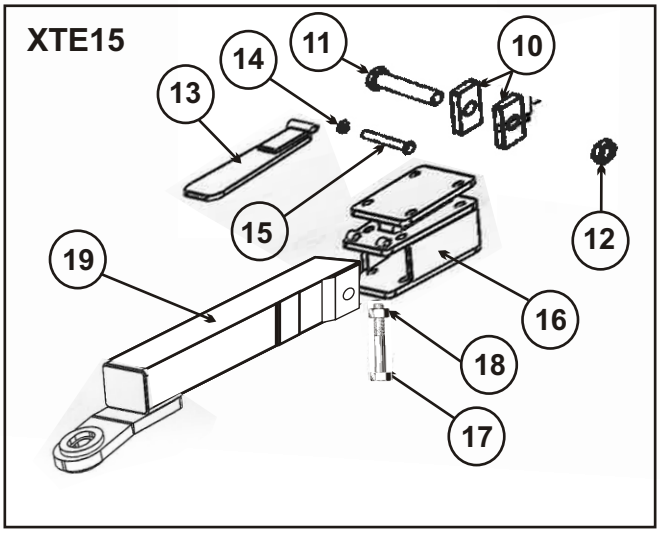
ABCHITCH1
TELESCOPING HITCH COMPLETE

ABCHITCH2
RIGID HITCH COMPLETE

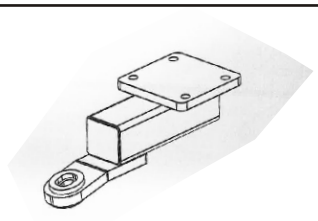


PARTS LIST

XTE15



XTE12

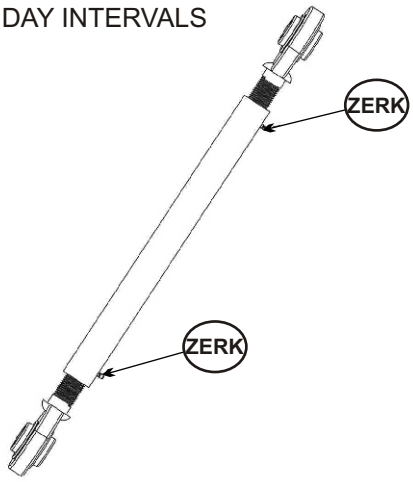


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Z9021-SUB1	HEARTLAND HITCH CENTER ARM	1
2	Z9021-SUB2	HEARTLAND HITCH SIDE ARM	2
3	FHC34212GR8	BOLT HXCP 3/4 X 2-1/2 GR8	2
4	FHC342GR8	BOLT HXCP 3/4 X 2 GR8	4
5	FNT34ML	NUT HX 3/4 MLOCK	4
6	Z3142M	PLATE STEEL 5/8 X 6 X 8	2
7	FHC34812 FLW34 FNT34	BOLT HXCP 3/4 X 8-1/2 LOCK WASHER 3/4 NUT HX 3/4	8 8 8
8	Z9150H	PLATE STEEL 5/8 X 8 X 9	1
9	FHC34612 FLW34 FNT34	BOLT HXCP 3/4 X 6-1/2 LOCK WASHER 3/4 NUT HX 3/4	4 4 4
10	Z9022E	PLATE STEEL 1 X 2 X 3-3/4	2
11	FHC01812	BOLT HXCP 1 X 8-1/2	1
12	FNT1W	NUT HX 1 NYLON LOCK	1
13	Z9022-SUB2	TELESCOPING HITCH LOCK	1
14	FNT716W	NUT HX 7/16 NYLON LOCK	1
15	FHC7166	BOLT HXCP 7/16 X 6	1
16	Z9022-SUB1	HITCH TELESCOPING RECEIVER BOX	1
17	FHC346	BOLT HXCP 3/4 X 6	4
18	FNT34ML	NUT HX 3/4 MLOCK GRC NC	4
19	Z9022-SUB3	TELESCOPING HITCH SLIDE BAR	1

GREASE ZERK LOCATION

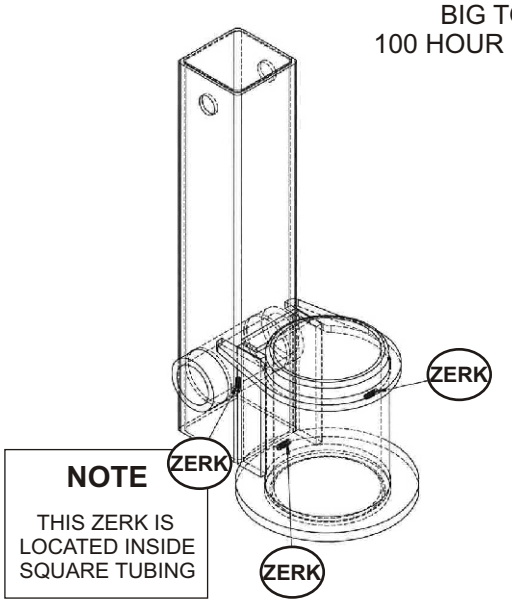
FRONT GAUGE WHEEL ZERK LOCATIONS

FRONT GAUGE WHEEL
MONSTER LINK
90 DAY INTERVALS



MMM14 - REPLACEMENT ZERK 1/4

FRONT GAUGE WHEEL
BIG TOWER
100 HOUR INTERVALS

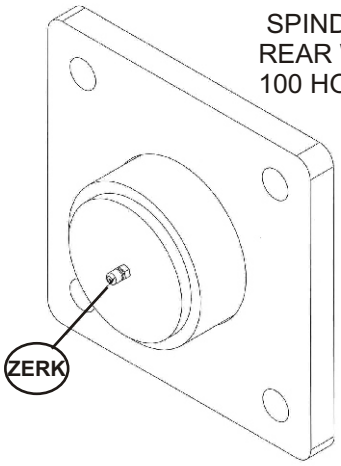


NOTE

THIS ZERK IS LOCATED INSIDE SQUARE TUBING

REAR WALKING AXLE ZERK LOCATIONS

SPINDLE BOX CAPS
REAR WALKING AXLE
100 HOUR INTERVALS



MMM14 - REPLACEMENT ZERK 1/4

Lubricating and Maintaining Machine Safely



CAUTION:



To help prevent serious injury or death to others caused by unexpected movement, be sure to service machine on a level surface. If machine is connected to tractor, engage parking brake and place transmission in **PARK**, shut off engine and remove key. If machine is detached from tractor, block wheels and use saftey stands to prevent movement.

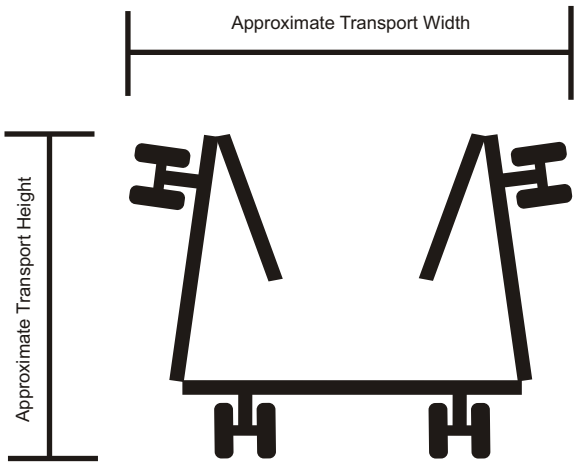
Wako LLC uses
Superfilm Hi-Temp #2

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BIG COUNTRY WAGON SPECIFICATIONS



BIG COUNTRY WAGON (160) CENTER	APPROXIMATE ROAD WIDTH	APPROXIMATE ROAD HEIGHT	APPROXIMATE WEIGHT
26' BIG COUNTRY W/BULL SHANKS	21'	9' 9"	
31' BIG COUNTRY W/BULL SHANKS	21'	12' 3"	
34' BIG COUNTRY W/BULL SHANKS	21'	13' 9"	
37' BIG COUNTRY W/BULL SHANKS	21'	15' 3"	
39' BIG COUNTRY W/BULL SHANKS	21'	16' 3"	
46' BIG COUNTRY W/BULL SHANKS	21'	15'3"	
49' BIG COUNTRY W/BULL SHANKS	21'	15'3"	
BIG COUNTRY WAGON (190) CENTER	APPROXIMATE ROAD WIDTH	APPROXIMATE ROAD HEIGHT	APPROXIMATE WEIGHT
31' BIG COUNTRY W/BULL SHANKS	23' 6"	9' 9"	
34' BIG COUNTRY W/BULL SHANKS	23' 6"	12' 3"	
37' BIG COUNTRY W/BULL SHANKS	23' 6"	13' 9"	
39' BIG COUNTRY W/BULL SHANKS	23' 6"	15' 3"	
41' BIG COUNTRY W/BULL SHANKS	23' 6"	16' 3"	
54' BIG COUNTRY W/BULL SHANKS	23' 6"	15' 3"	
57' BIG COUNTRY W/BULL SHANKS	23' 6"	15' 3"	

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