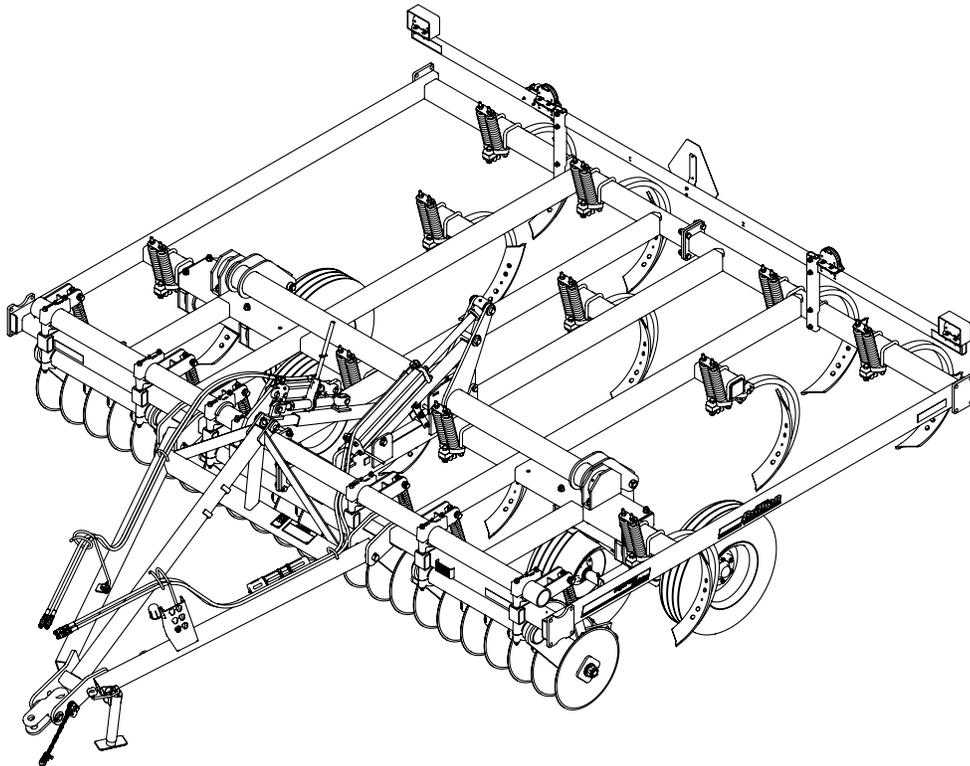




**Super Soil Builder  
Coulter Chisel Extended Frame  
Models: SB, HSB 71-1 thru 131-1  
Parts Manual**



**LANDOLL COMPANY, LLC**

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## Manuals for Super Soil Builder - Coulter Chisel Extended Frame

Manual Number	Manual Type
1K705	Operator's Manual
1K704	Parts Manual

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# Illustrated Parts List

## Instructions for Ordering Parts

**\*\* Repair parts must be ordered through an authorized dealer \*\***

### DEALER INSTRUCTIONS FOR ORDERING PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

PHONE: 800-423-4320 OR 785-562-5381

FAX: 888-527-3909

ORDER ONLINE: [Dealer.landoll.com](http://Dealer.landoll.com)

### DATA PLATE

The Data Plate, which lists the model and serial number of the equipment, is located on the left side of the Super Soil Builder.

### SERIAL NUMBER NOMENCLATURE

The following information will help decode the Landoll serial number.

**SBE2400100 = xxmysssss**

<b>xx</b>	= model series (i.e. "SB" for all Soil Builders)
<b>m</b>	= month of manufacture (ex. "E" means May. The letter I is not used.)
<b>yy</b>	= last digits of the year manufactured (ex. "24" means 2024)
<b>sssss</b>	= Sequential number used to track warranty and service information.



Figure 1-1: Data Plate

### Frame (7 and 9 Shank)

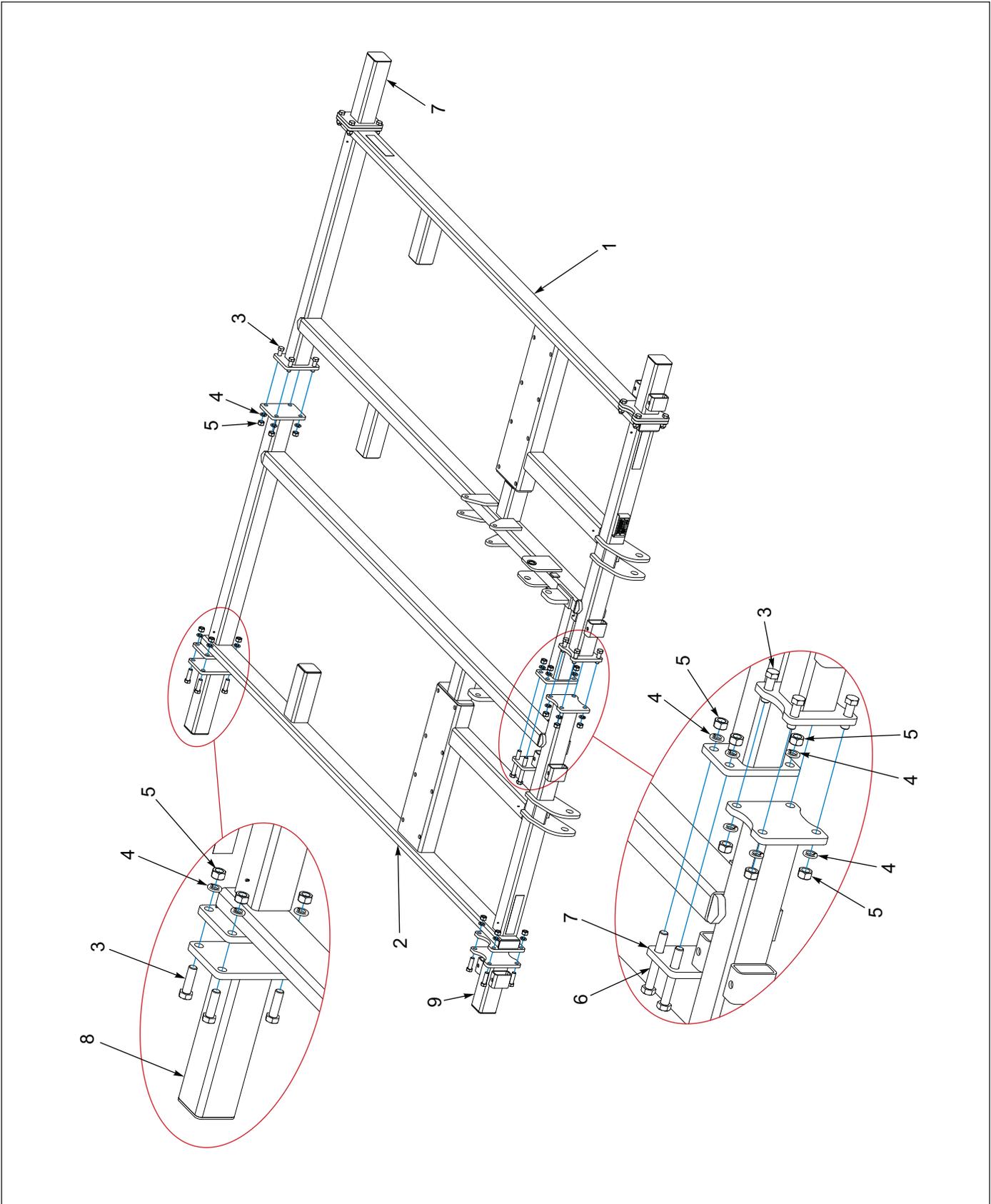


Figure 1-2: Frame (7 and 9 Shank)

## Frame (7 and 9 Shank)

ITEM	PART NUMBER	DESCRIPTION	QTY	
			7 Shank	9 Shank
		<b>MODELS</b>		
1	1K668	L.H. FRAME	1	--
1	1K670	L.H. FRAME <b>(SHOWN)</b>	--	1
2	1K669	R.H. FRAME	1	--
2	1K671	R.H. FRAME <b>(SHOWN)</b>	--	1
3	1-654-010061-07	SCREW, HX CP 3/4-10UNC X 2-1/2, G5	8	24
4	1-861-010034-17	WASHER, LKG, HCL SPR, 3/4	12	28
5	1-512-010007-12	NUT, HEX 3/4-10 GR2, ZP	12	28
6	1-654-010061-16	SCREW, 3/4-10UNC X 5-1/2 HXCP, G5	4	4
7	7J662	PLATE	1	1
8	7J655	SHANK EXTENSION	--	2
9	7J656	COULTER EXTENSION	--	2

Frame (11 and 13 Shank)

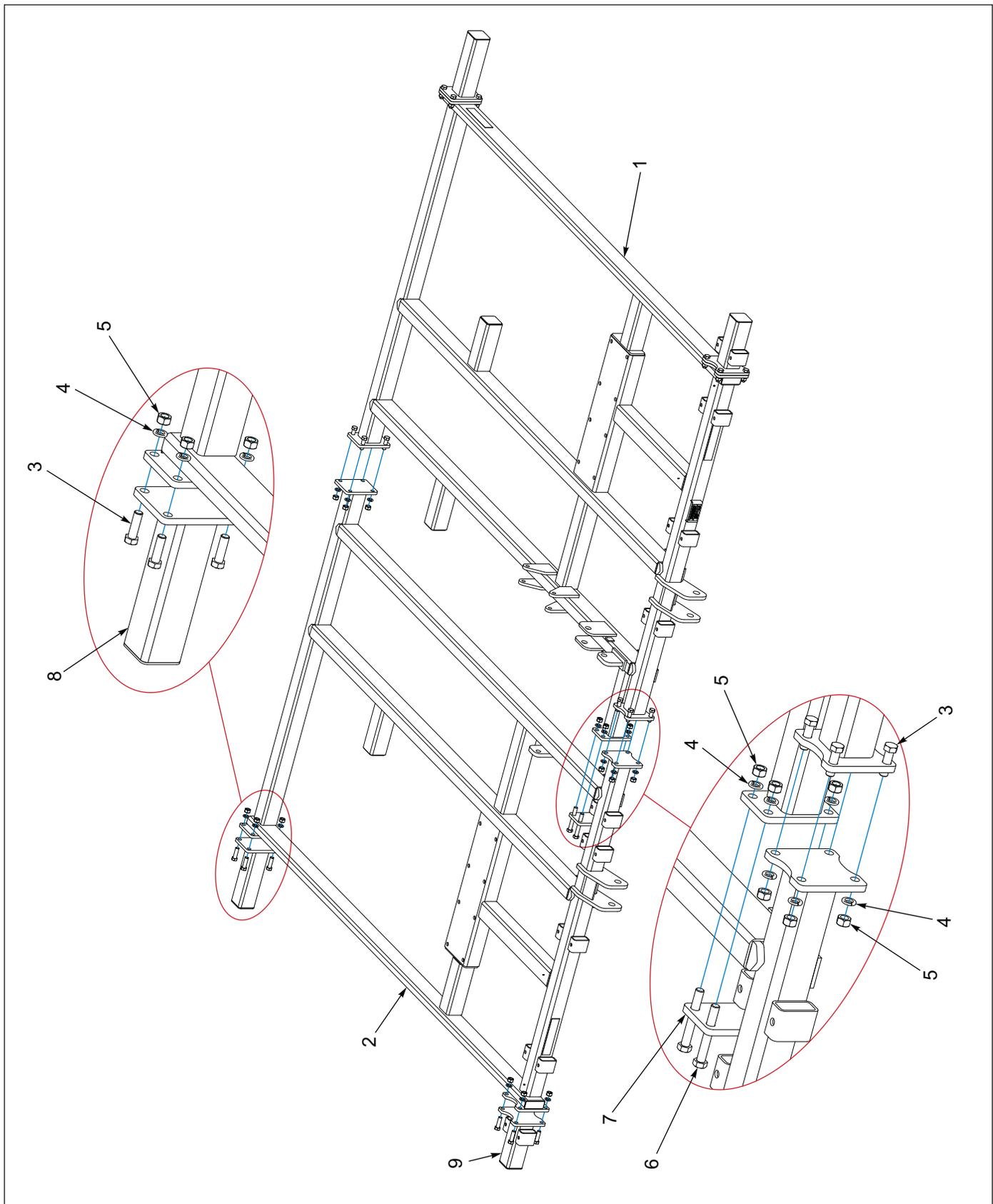


Figure 1-3: Frame (11 and 13 Shank)

## Frame (11 and 13 Shank)

ITEM	PART NUMBER	DESCRIPTION	QTY	
			11 Shank	13 Shank
		<b>MODELS</b>		
1	1K672	L.H. FRAME	1	1
2	1K673	R.H. FRAME	1	1
3	1-654-010061-07	SCREW, HEX CAP 3/4-10UNC X 2-1/2, G5	8	24
4	1-861-010034-17	WASHER, LKG, HCL SPR, 3/4	12	28
5	1-512-010007-12	NUT, HEX 3/4-10 GR2, ZP	12	28
6	1-654-010061-16	SCREW, 3/4-10UNC X 5-1/2 HXCP, G5	4	4
7	7J662	PLATE	1	1
8	7J655	SHANK EXTENSION	--	2
9	7J656	COULTER EXTENSION	--	2

# Drawbar Assembly (7 and 9 Shank)

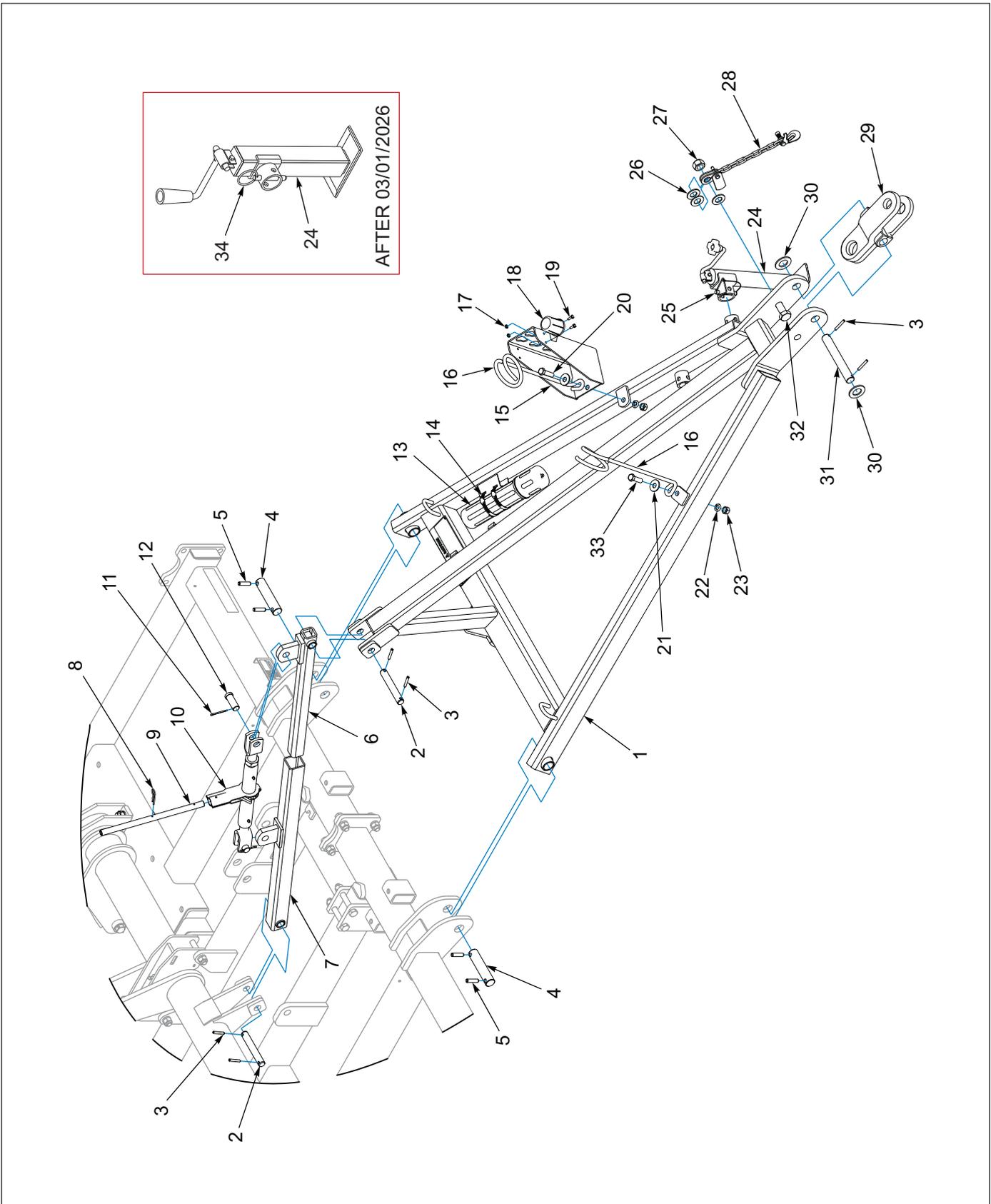


Figure 1-4: Drawbar Assembly (7 and 9 Shank)

## Drawbar Assembly (7 and 9 Shank)

ITEM	PART NUMBER	DESCRIPTION	QTY
1	7J602	DRAWBAR	1
2	6J580	PIN (1 X 6-1/2)	2
3	147072	ROLL PIN 5/16 X 2"	6
4	7J599	PIN (1-7/16 X 6-3/8)	2
5	127351	ROLL PIN 1/2 X 2	4
6	7J560	UPPER BRACE	1
7	7J562	LOWER BRACE	1
8	4C856	HAIR PIN COTTER	1
9	7J685	HANDLE	1
10	7J686	RATCHET JACK W/O HANDLE	1
11	110-4224	PIN, COTTER 3/16 X 2IN LG	2
12	8D099	CLEVIS PIN (1 X 2-1/2)	2
13	1-116-010019	BOX, MANUAL STORAGE	1
14	105-0093	HOSE CLAMP 4-1/2 IDEAL #5264	2
15	8K885	HOSE HOLDER	1
16	6D333	HOSE SUPPORT	2
17	1-512-010005-01	NUT, HEX, SLFLKG GRB 1/4-20	2
18	2-368-010287	CONNECTOR HOLDER	1
19	1-654-010047-04	SCREW, HEX CAP, 1/4-20 X 3/4, GR5	2
20	1-654-010059-06	SCREW, HEX CAP 5/8-11 X 2-1/4, G5	1
21	1-861-010032-19	WASHER, FLAT 5/8 W, ZP/CD	1
22	1-861-010034-15	WASHER, LKG, HLCL SPR, 5/8	1
23	1-512-010007-11	NUT, HEX 5/8-11	1
24	258299	JACK, TOP WIND, 5K (INCLUDES ITEM 34) (AFTER 03/01/2026)	1
24	3J880	DRAWBAR JACK (INCLUDES ITEM 25) (BEFORE 03/01/2026)	1
25	6K458	9/16 JACK PIN W/CHAIN & SCREW (REPLACEMENT PIN) (BEFORE 03/01/2026)	1
26	1-861-010032-24	WASHER, FL 1IN NARROW, ZP	3
27	1-512-010005-19	NUT, 1-8 HEX SLF-LOCKING GRB	1
28	141433	SAFETY CHAIN 11,000LB	1
29	2J858	HITCH	1
30	116100	WASHER, 1-1/4 NAR FL, ZP/CD	2
31	164756	PIN, 1-1/4 X 9.0	1
32	3J608	CAPSCREW, 1-8UNC X 3, GR5	1
33	1-654-010059-05	SCREW, HEX CAP, 5/8-11UNC X 2, GR5	1
34	3P006	PIN, 9/16 W/CHAIN (REPLACEMENT PIN) (AFTER 03/01/2026)	1

# Drawbar Assembly (11 and 13 Shank)

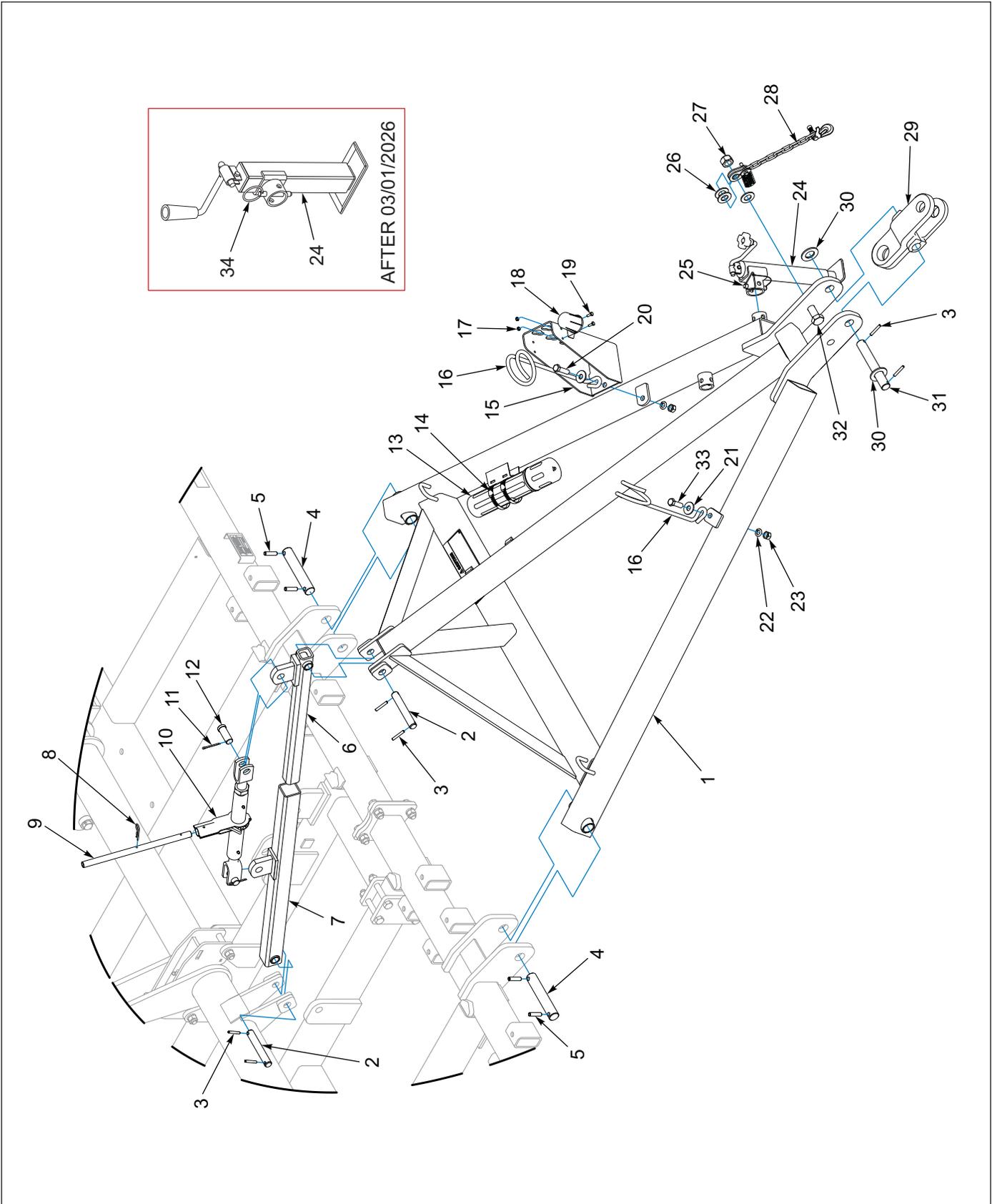


Figure 1-5: Drawbar Assembly (11 and 13 Shank)

## Drawbar Assembly (11 and 13 Shank)

ITEM	PART NUMBER	DESCRIPTION	QTY
1	7J861	DRAWBAR	1
2	6J580	PIN (1 X 6-1/2)	2
3	147072	ROLL PIN, 5/16 X 2	6
4	7J856	PIN (1-7/16 X 8)	2
5	6D854	ROLL PIN, 1/2 X 2	4
6	7J560	UPPER BRACE	1
7	7J562	LOWER BRACE	1
8	4C856	HAIR PIN COTTER	1
9	7J685	HANDLE	1
10	7J686	RATCHET JACK W/O HANDLE	1
11	110-4224	PIN, COTTER 3/16 X 2IN LG	2
12	8D099	CLEVIS PIN (1 X 2-1/2)	2
13	1-116-010019	BOX, MANUAL STORAGE	1
14	105-0093	HOSE CLAMP 4-1/2 IDEAL #5264	2
15	8K885	HOSE HOLDER	1
16	6D333	HOSE SUPPORT	2
17	1-512-010005-01	NUT, HEX, 1/4-20 SLFLKG, GRB	2
18	2-368-010287	CONNECTOR HOLDER	1
19	1-654-010047-04	SCREW, HEX CAP, 1/4-20 X 3/4, GR5	2
20	1-654-010059-06	SCREW, HEX CAP, 5/8-11 X 2-1/4, G5	1
21	1-861-010032-19	WASHER, FLAT 5/8 W, ZP/CD	2
22	1-861-010034-15	WASHER, LKG, HLCL SPR, 5/8	2
23	1-512-010007-11	NUT, HEX 5/8-11	2
24	258299	JACK, TOP WIND, 5K (INCLUDES ITEM 34) (AFTER 03/01/2026)	1
24	3J881	DRAWBAR JACK (INCLUDES ITEM 25) (BEFORE 03/01/2026)	1
25	6K458	9/16 JACK PIN W/CHAIN & SCREW (REPLACEMENT PIN) (BEFORE 03/01/2026)	1
26	1-861-010032-24	WASHER, FL 1IN NARROW, ZP	3
27	1-512-010005-19	NUT, 1-8 HEX SLF-LOCKING, GRB	1
28	141433	SAFETY CHAIN 11,000LB	1
29	2J858	HITCH	1
30	116100	WASHER, 1-1/4 NAR FL, ZP/CD	2
31	164756	PIN, 1-1/4 X 9.0	1
32	3J608	CAPSCREW, 1-8 X 3, GR5	1
33	1-654-010059-05	SCREW, HEX CAP, 5/8-11UNC X 2, GR5	1
34	3P006	PIN, 9/16 W/CHAIN (REPLACEMENT PIN) (AFTER 03/01/2026)	1

Single Axle Assembly (7 and 9 Shank)

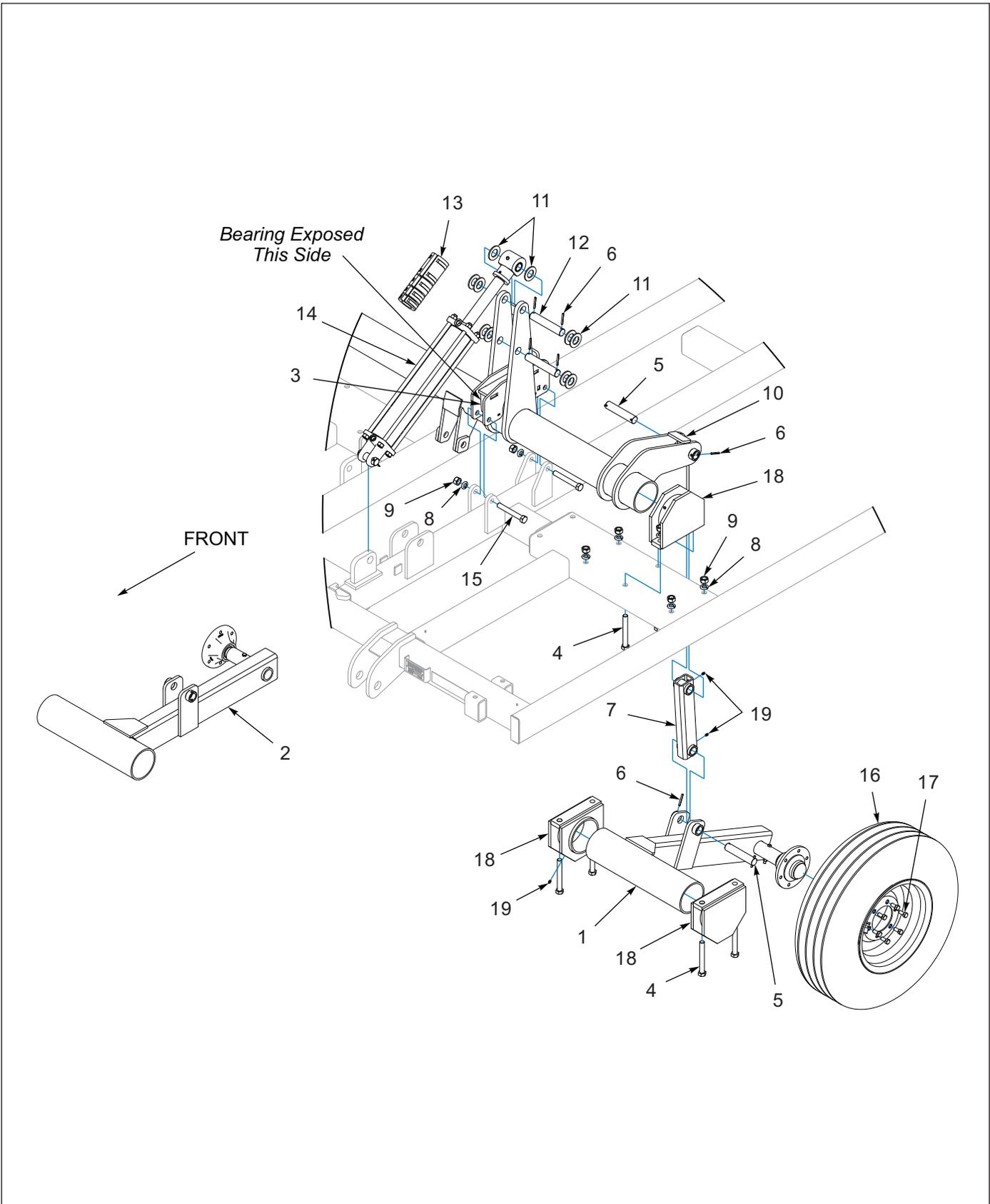


Figure 1-6: Single Axle Assembly (7 and 9 Shank)

## Single Axle Assembly (7 and 9 Shank)

ITEM	PART NUMBER	DESCRIPTION	QTY
1	7J625	LH WHEEL ARM (SEE PAGE 1-18)	1
2	7J624	RH WHEEL ARM (SEE PAGE 1-19)	1
3	7J637	BEARING (SEE PAGE 1-23)	1
4	W908409-4	SCR, 3/4-10 X 6 HEX HD CAP	12
5	4J575	PIN (1-1/4 X 6-1/8)	4
6	1-647-010004221	PIN, SPRING 1/4 X 2 SLOTTED	12
7	7J643	LINK (SEE PAGE 1-28)	2
8	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	14
9	1-512-010007-12	NUT, HEX 3/4-10 GR2, ZP	14
10	7J638	ROCKSHAFT	1
11	116100	WASHER, 1-1/4 NAR FL, ZP/CD	10
12	4J550	PIN (1-1/4 X 6-13/16)	2
13	1P325	CYLINDER DEPTH STOP KIT MOD 96	1
14	9K733	HYDRAULIC CYLINDER, 3-1/2 X 16 (SEE PAGE 1-59)	1
15	1-654-010061-16	SCREW, 3/4-10UNC X 5-1/2 HXCP, G5	2
16	6K921	WHEEL 8J791/NO TUBE/6D312 (SEE PAGE 1-22)	2
17	5C100	WHEEL BOLT, 1/2-20 X 1 GR5, ZP	12
18	7J627	BEARING (INCLUDES ITEM 19)	6
19	1-298-010001-1	GREASE FITTING	1

# Tandem Axle Assembly (9 Shank)

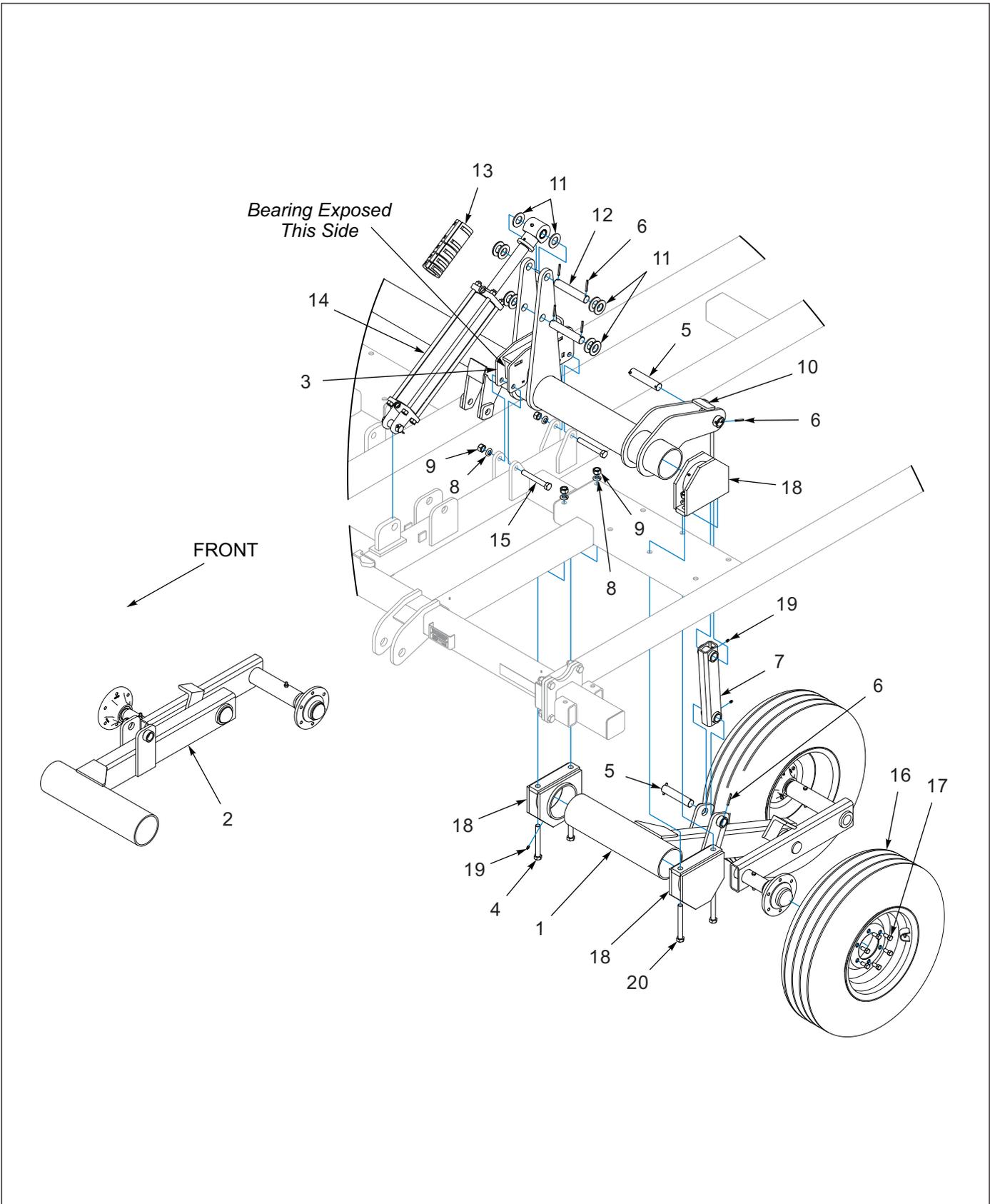


Figure 1-7: Tandem Axle Assembly (9 Shank)

## Tandem Axle Assembly (9 Shank)

ITEM	PART NUMBER	DESCRIPTION	QTY
1	9K212	WALKING BEAM ASSEMBLY (SEE PAGE 1-17) (USED ON LH SIDE)	1
2	9K211	WALKING BEAM ASSEMBLY (SEE PAGE 1-16) (USED ON RH SIDE)	1
3	7J637	BEARING (SEE PAGE 1-23)	1
4	W908409-4	SCR, 3/4-10 X 6 HEX HD CAP	4
5	4J575	PIN (1-1/4 X 6-1/8)	4
6	1-647-010004221	PIN, SPRING 1/4 X 2 SLOTTED	12
7	7J643	LINK (INCLUDES ITEM 19)	2
8	1-861-010034-17	WASHER, LKG, HLCL SPR,3/4	10
9	1-512-010007-12	NUT, HEX 3/4-10 GR2, ZP	10
10	7J638	ROCKSHAFT	1
11	116100	WASHER, 1-1/4 NAR FL, ZP/CD	10
12	4J550	PIN (1-1/4 X 6-13/16)	2
13	1P325	CYLINDER DEPTH STOP KIT MOD 96	1
14	9K733	HYDRAULIC CYLINDER, 3-1/2 X 16 (SEE PAGE 1-59)	1
15	1-654-010061-16	SCREW, 3/4-10UNC X 5-1/2 HXCP, G5	2
16	6K921	WHEEL 8J791/NO TUBE/6D312 (SEE PAGE 1-22)	4
17	5C100	WHEEL BOLT 1/2-20 X 1 GR5, ZP	24
18	7J627	BEARING (INCLUDES ITEM 19)	6
19	1-298-010001-1	GREASE FITTING	1
20	100855	HHCS, 3/4-10 X 6-1/2	4

ILLUSTRATED PARTS LIST

Tandem Axle Assembly (11 and 13 Shank)

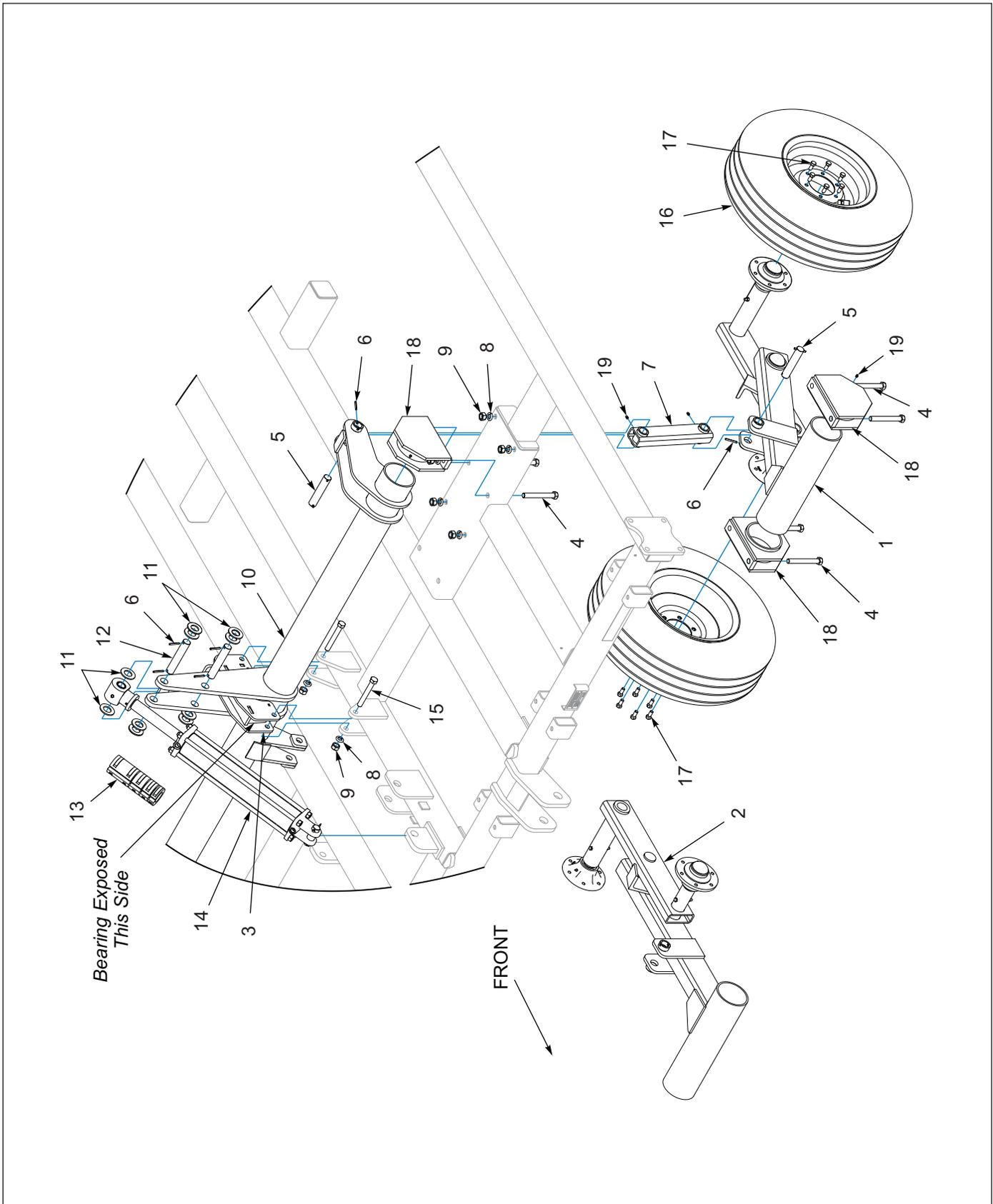


Figure 1-8: Tandem Axle Assembly (11 and 13 Shank)

## Tandem Axle Assembly (11 and 13 Shank)

ITEM	PART NUMBER	DESCRIPTION	QTY
1	9K211	WALKING BEAM ASSEMBLY (SEE PAGE 1-17) (USED ON LH SIDE)	1
2	9K212	WALKING BEAM ASSEMBLY (SEE PAGE 1-16) (USED ON RH SIDE)	1
3	7J637	BEARING (SEE PAGE 1-23)	1
4	W908409-4	SCR, 3/4-10 X 6 HEX HD CAP	12
5	4J575	PIN (1-1/4 X 6-1/8)	4
6	1-647-010004221	PIN, SPRING 1/4 X 2 SLOTTED	12
7	7J643	LINK (INCLUDES ITEM 19)	2
8	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	14
9	1-512-010007-12	NUT, HEX 3/4-10 GR2, ZP	14
10	7J851	ROCKSHAFT 11-13	1
11	116100	WASHER, 1-1/4 NAR FL, ZP/CD	10
12	4J550	PIN (1-1/4 X 6-13/16)	2
13	1P325	CYLINDER DEPTH STOP KIT MOD 96	1
14	9K733	HYDRAULIC CYLINDER, 3-1/2 X 16 (SEE PAGE 1-59)	1
15	1-654-010061-16	SCREW, 3/4-10UNC X 5-1/2 HXCP, G5	2
16	6K921	WHEEL 8J791/NO TUBE/6D312 (SEE PAGE 1-22)	4
17	5C100	WHEEL BOLT 1/2-20 X 1 GR5, ZP	24
18	7J627	BEARING (INCLUDES ITEM 19)	6
19	1-298-010001-1	GREASE FITTING	1

ILLUSTRATED PARTS LIST

Tandem Walking Beam Assembly - Right Hand

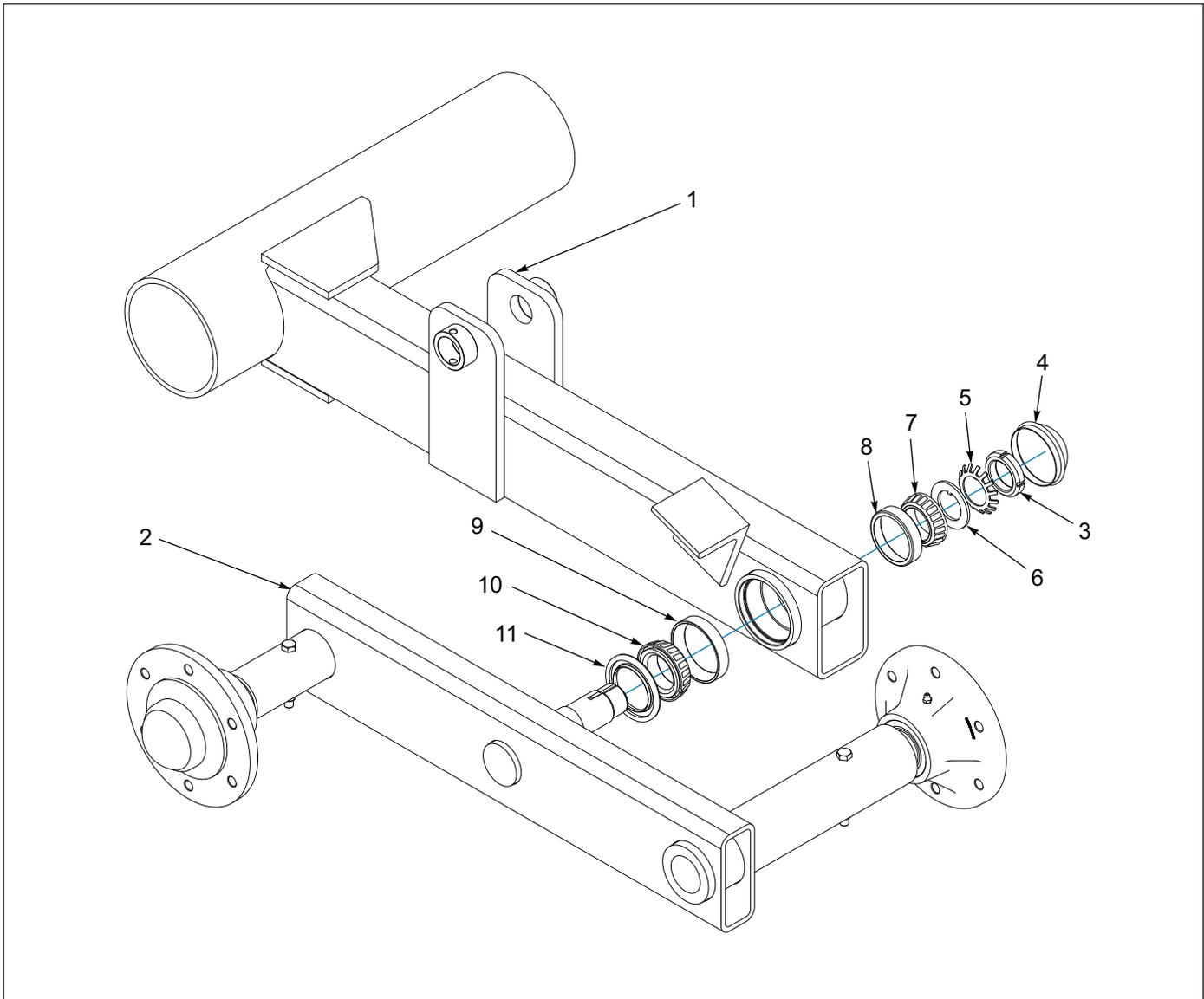


Figure 1-9: Tandem Walking Beam Assembly - Right Hand

Tandem Walking Beam Assembly - Right Hand

ITEM	PART NUMBER	DESCRIPTION	QTY
	9K212	WALKING BEAM ASSEMBLY RH	--
1	7J613	WALKING BEAM ARM	1
2	9K210	WALKING BEAM ASM (INCLUDES ITEM 3) (SEE PAGE 1-20)	1
3	9C434	BEARING LOCK NUT	1
4	4J554	HUB CAP	1
5	9C435	BEARING LOCK WASHER	1
6	5J336	KEYED WASHER	1
7	1-076-010009	CONE INNER	1
8	1-076-010012	CUP OUTER	1
9	102604	BEARING CUP, OUTER	1
10	102498	BEARING CONE OUTER, 1.625	1
11	4J565	SEAL (2" ID - 3.066" OD)	1

## Tandem Walking Beam Assembly - Left Hand

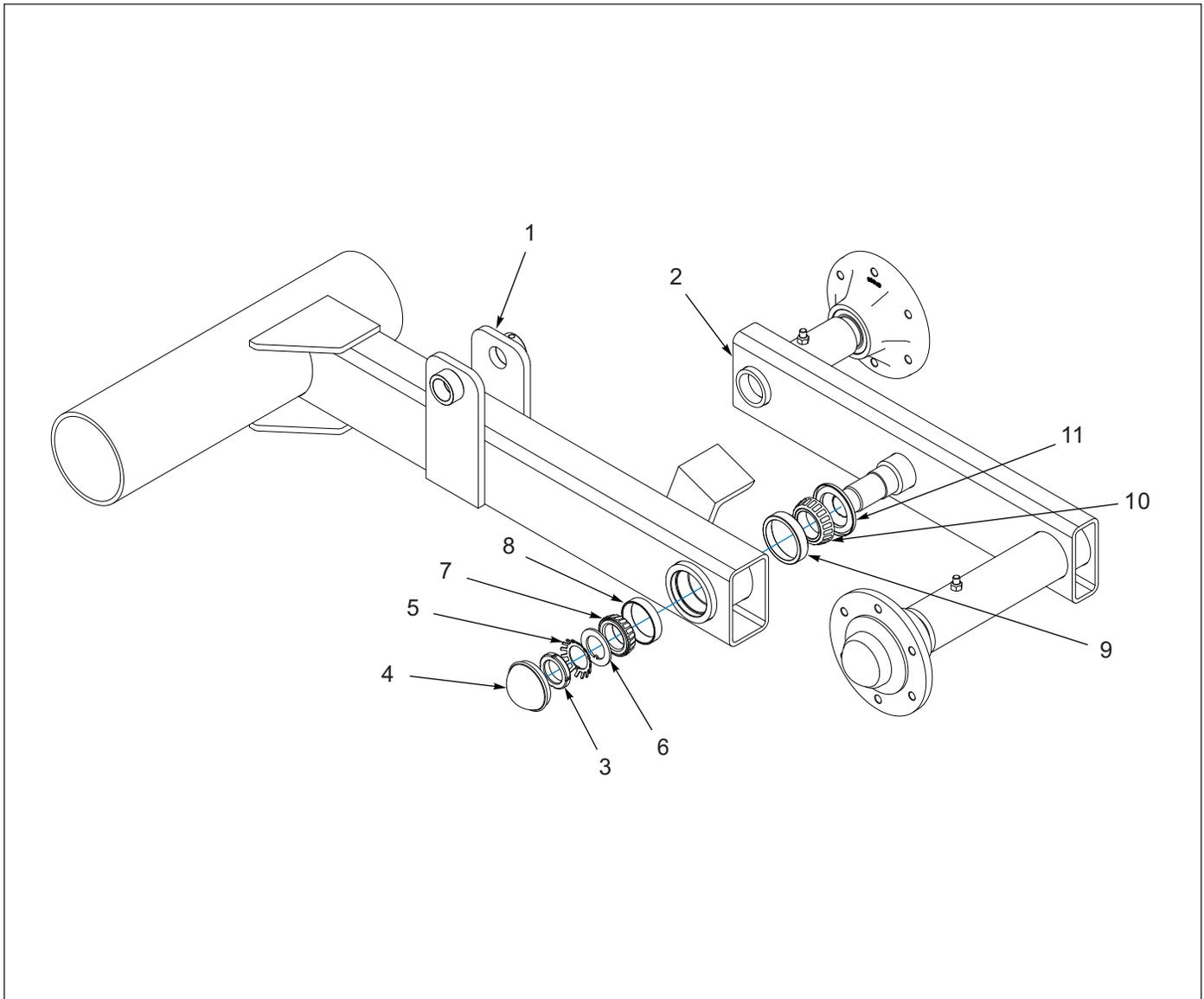


Figure 1-10: Tandem Walking Beam Assembly - Left Hand

## Tandem Walking Beam Assembly - Left Hand

ITEM	PART NUMBER	DESCRIPTION	QTY
	9K211	WALKING BEAM ASSEMBLY LH	1
1	7J614	WALKING BEAM ARM	1
2	9K210	WALKING BEAM ASM (INCLUDES ITEM 3) (SEE PAGE 1-20)	1
3	9C434	BEARING LOCK NUT	1
4	4J554	HUB CAP	1
5	9C435	BEARING LOCK WASHER	1
6	5J336	KEYED WASHER	1
7	1-076-010009	CONE INNER	1
8	1-076-010012	CUP OUTER	1
9	102604	BEARING CUP, OUTER	1
10	102498	BEARING CONE OUTER, 1.625	1
11	4J565	SEAL (2" ID - 3.066" OD)	1

ILLUSTRATED PARTS LIST

Left Hand Wheel Arm

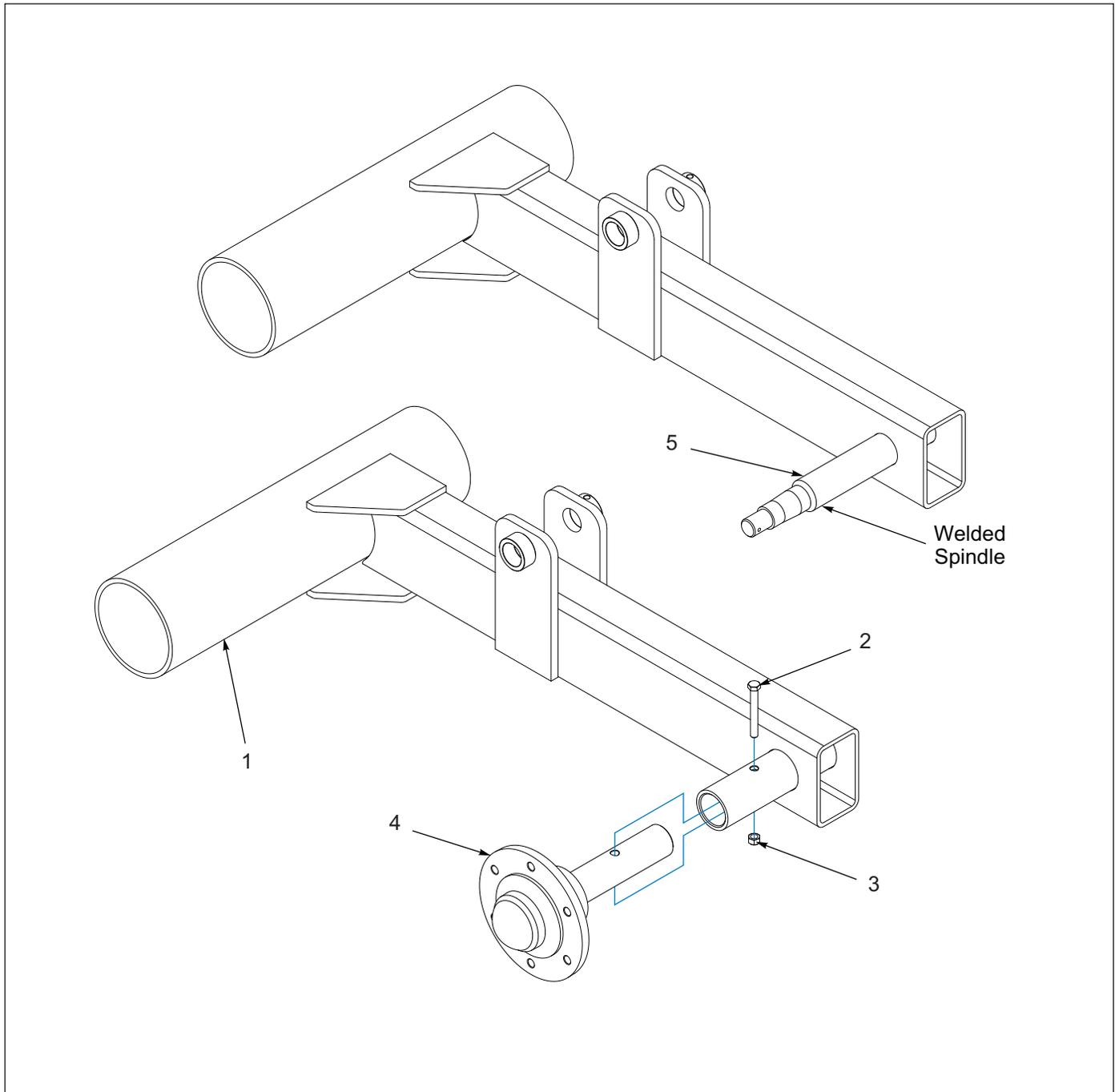


Figure 1-11: Left Hand Wheel Arm

Left Hand Wheel Arm

ITEM	PART NUMBER	DESCRIPTION	QTY
	7J625	LH WHEEL ARM	1
1	170013	WHEEL, ARM LH WELDMENT	1
2	1-654-010051-13	SCREW, HX CP, 3/8-16UNC X 3, GR5	1
3	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	1
4	6J766	HUB & SPINDLE ASM (SEE PAGE 1-21)	1
5	5J962	SPINDLE (WELDED) (1.75" DIA.) (SOLD SEPERATELY)	1

## Right Hand Wheel Arm

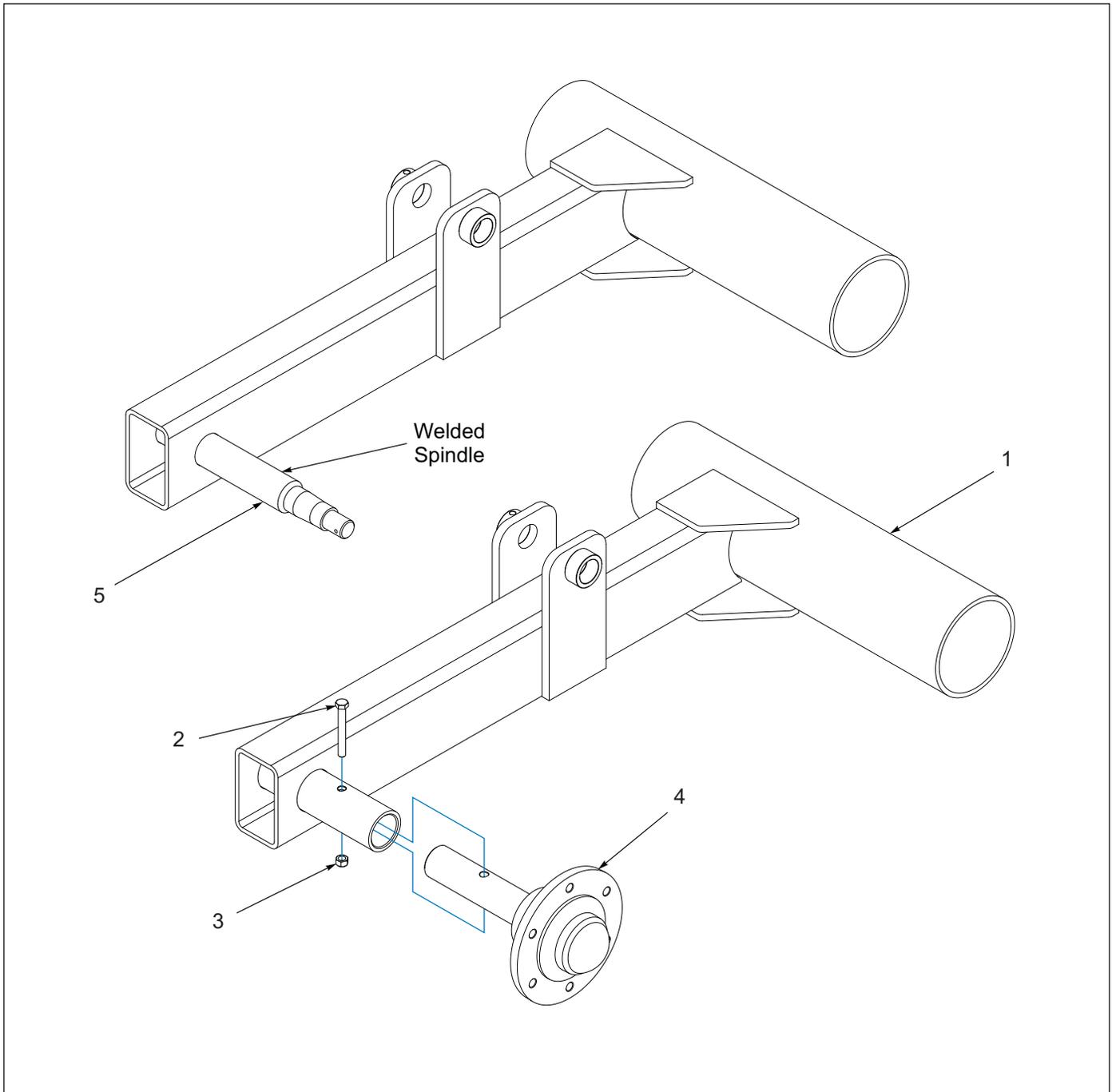


Figure 1-12: Right Hand Wheel Arm

## Right Hand Wheel Arm

ITEM	PART NUMBER	DESCRIPTION	QTY
	7J624	RH WHEEL ARM	1
1	170012	WHEEL, ARM RH WELDMENT	1
2	1-654-010051-13	SCREW, HX CP, 3/8-16UNC X 3, GR5	1
3	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	1
4	6J766	HUB & SPINDLE ASM (SEE PAGE 1-21)	1
5	5J962	SPINDLE (WELDED) (1.75" DIA.) (SOLD SEPERATELY)	1

ILLUSTRATED PARTS LIST

Walking Beam Assembly

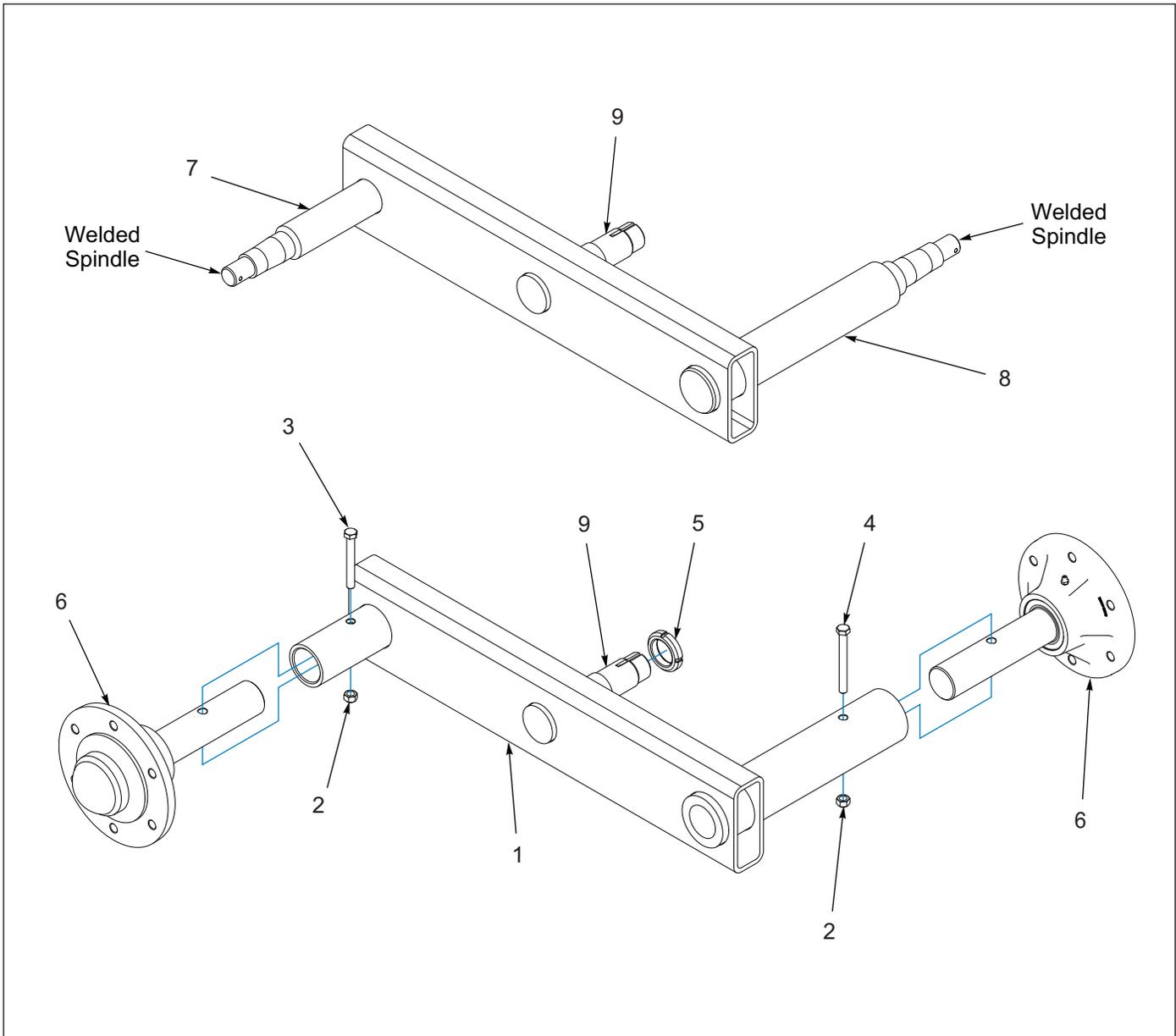


Figure 1-13: Walking Beam Assembly

Walking Beam Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
	9K210	WALKING BEAM ASM	1
1	170016	WALKING BEAM WELDMNT (INCLUDES ITEM 9)	1
2	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	2
3	1-654-010051-13	SCREW, HX CP, 3/8-16UNC X 3, GR5	1
4	1-654-010051-15	SCREW, HX CP, 3/8-16UNC X 3-1/2, GR5	1
5	9C434	BEARING LOCK NUT	1
6	6J766	HUB & SPINDLE ASM (SEE PAGE 1-21)	2
7	4J363	SPINDLE (WELDED) (1.75" DIA.) (SOLD SEPERATELY)	1
8	5J963	SPINDLE (WELDED) (2.375" DIA.) (SOLD SEPERATELY)	1
9	7J559	STUB SHAFT (SOLD SEPERATELY) (PART OF ITEM 1)	1

## Hub and Spindle Assembly

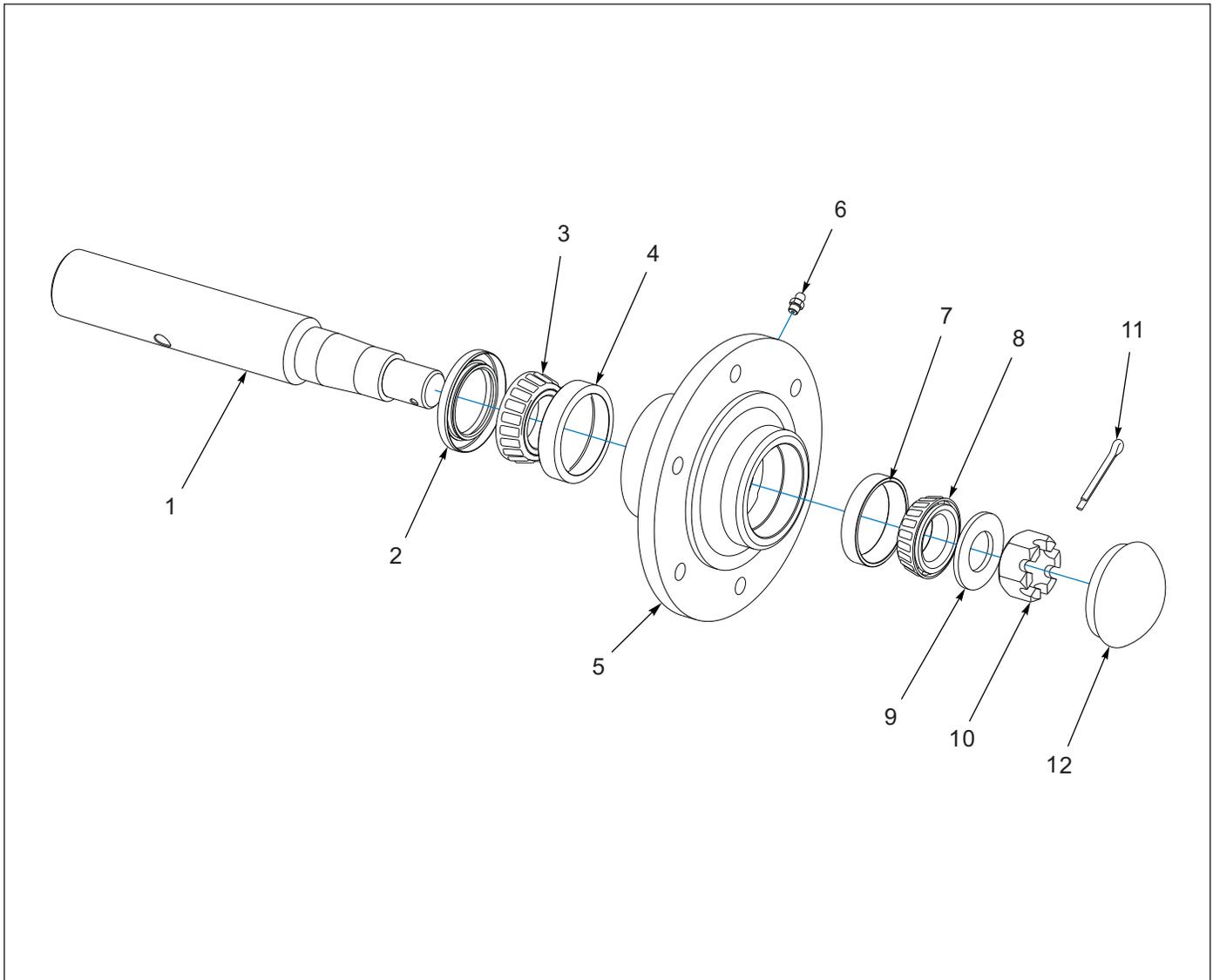


Figure 1-14: Hub and Spindle Assembly

## Hub and Spindle Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
	6J766	HUB & SPINDLE ASM	1
1	6J765	SPINDLE	1
2	6D338	SEAL	1
3	712099	OUTER BEARING CONE	1
4	2107649	CUP, INNER BEARING	1
5	6D336	WHEEL HUB - 6 BOLT <b>(INCLUDES ITEM 6)</b>	1
6	1-298-010001-1	ZERK FITTING 1/4 SAE	1
7	1-076-010010	CUP INNER	1
8	1-076-010007	CONE INNER	1
9	1-861-010032-24	WASHER, FL 1IN NARROW, ZP	1
10	1-516-010001-20	NUT, HX SLOT 1-14	1
11	1-557-010362-51	PIN, COTTER 3/16 X 1-1/2	1
12	1-161-010003	HUB CAP	1

### Tire and Wheel Assembly

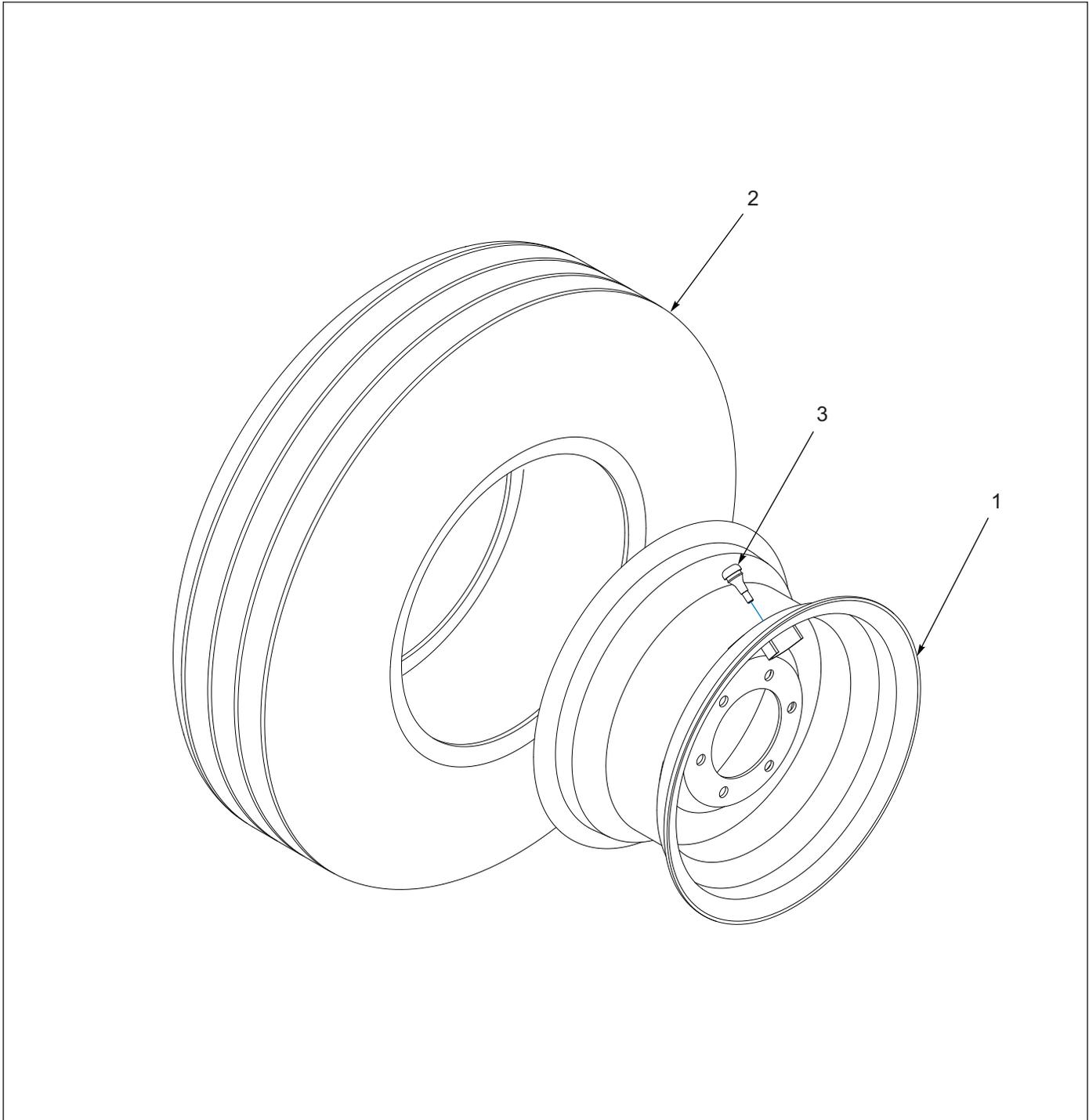


Figure 1-15: Tire and Wheel Assembly

### Tire and Wheel Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
	6K921	WHEEL 8J791/NO TUBE/6D312	1
1	6D312	WHEEL - 15 X 8LB - 6 BOLT	1
2	8J791	TIRE - 11L X 15 - 8 PLY	1
3	415	VALVE STEM-TUBELESS	1

# Bearing

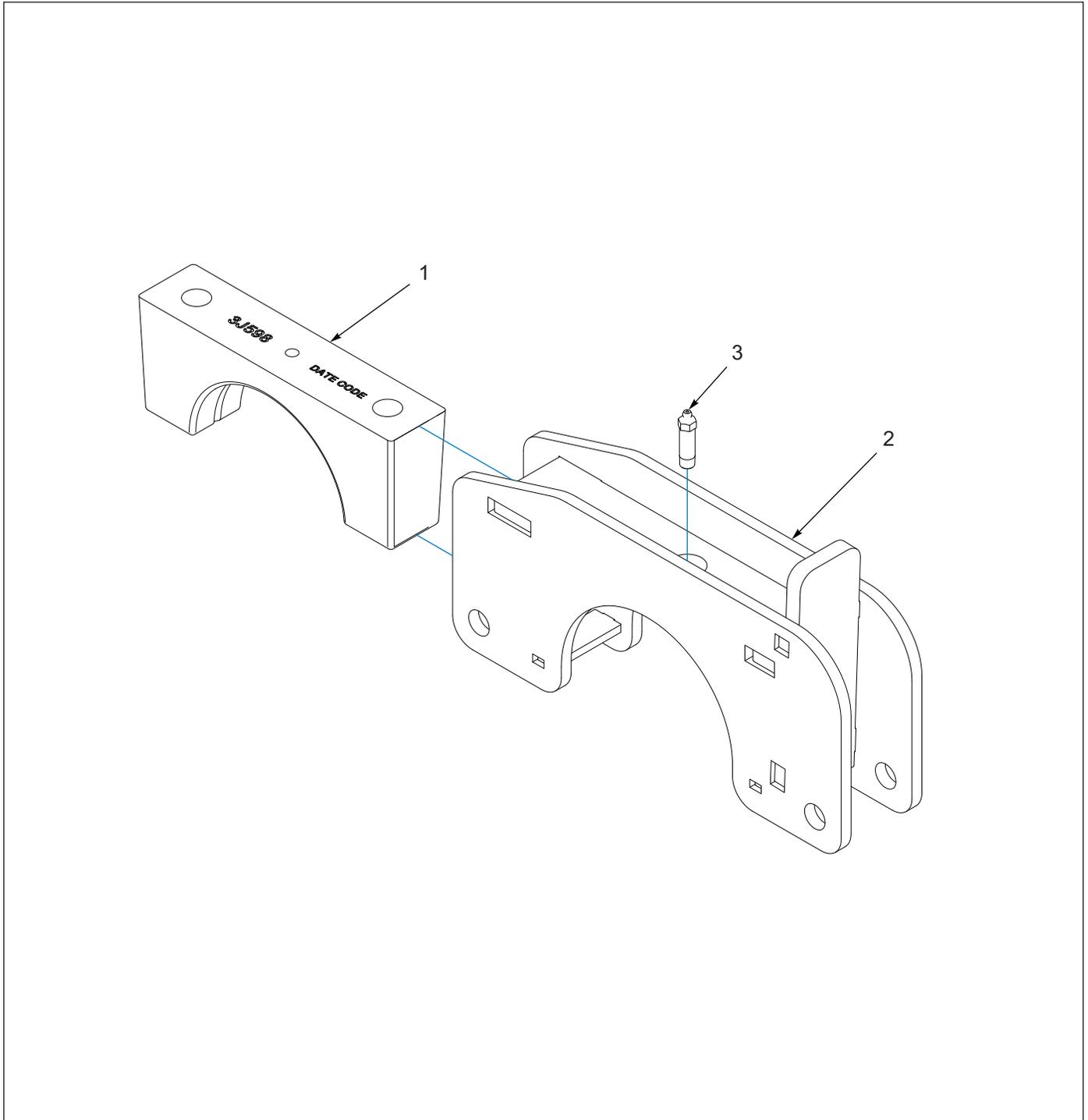


Figure 1-16: Bearing

# Bearing

ITEM	PART NUMBER	DESCRIPTION	QTY
	7J637	BEARING ASSEMBLY	1
1	3J598	BEARING	1
2	7J632	BEARING HOLDER	1
3	5J748	GREASE FITTING	1

# Transport Lock

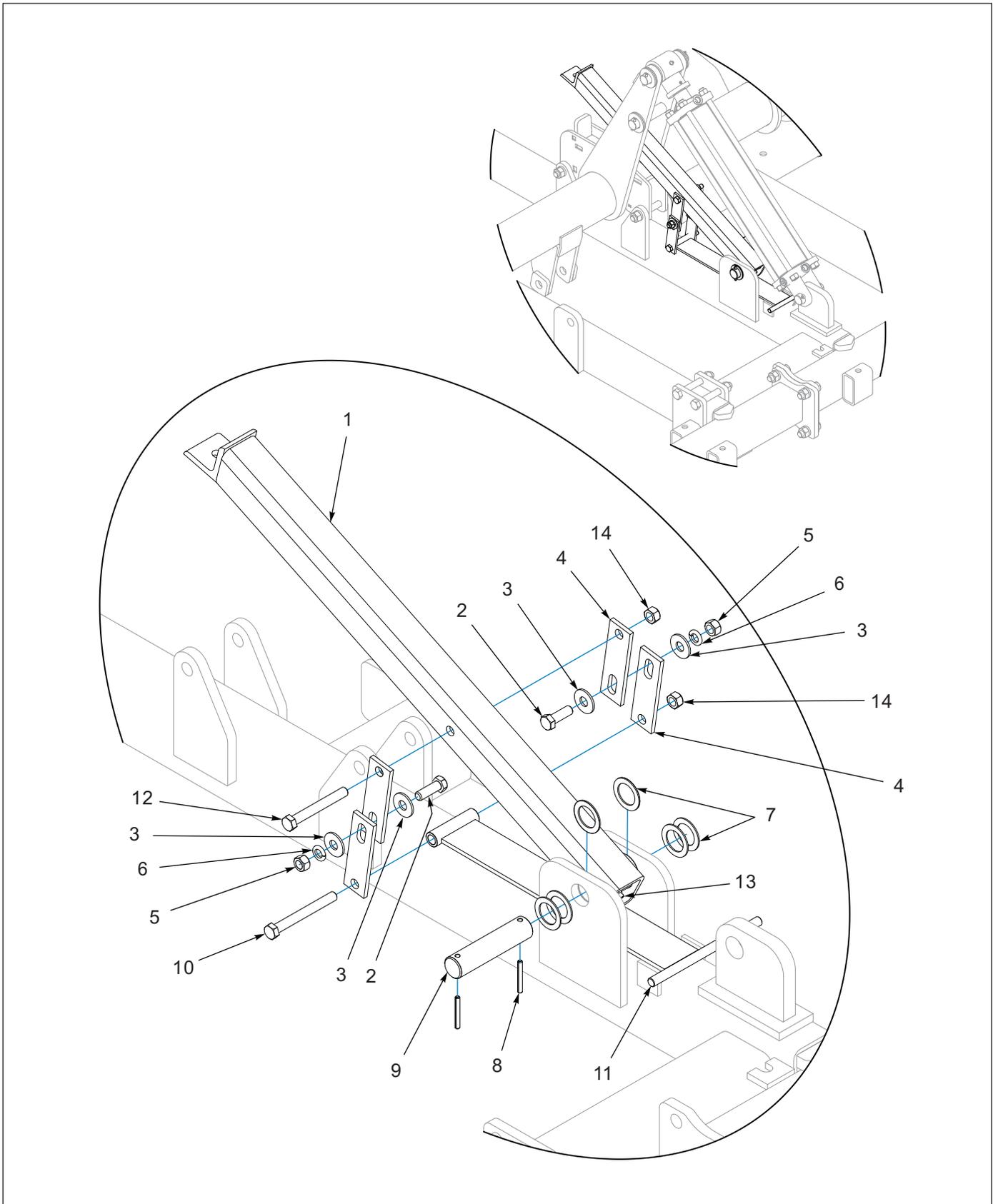


Figure 1-17: Transport Lock

## Transport Lock

ITEM	PART NUMBER	DESCRIPTION	QTY
1	7J588	TRANSPORT LOCK <b>(INCLUDES ITEM 13)</b>	1
2	1-654-010055-03	SCREW, HEX CAP, 1/2-13UNC X 1-1/2	2
3	1-861-010032-15	WASHER, FLAT 1/2 W, ZP/CD	4
4	7J661	STRAP <b>(5" LONG)</b>	4
5	1-512-010007-09	NUT, HEX 1/2-13, ZP	2
6	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	2
7	4J548	MACH BUSHING 1.25 X 1.875 X 14GA.	6
8	1-647-010004221	PIN, SPRING 1/4 X 2, SLOTTED	2
9	6J046	PIN <b>(1-1/4 X 5-3/8)</b>	1
10	1-654-010055-14	SCREW, HEX CAP, 1/2-13UNC X 4-1/2, G5	1
11	7J657	HANDLE	1
12	1-654-010055-13	SCREW, HEX CAP, 1/2-13UNC X 4, GR5	1
13	1-298-010001-1	ZERK FITTING, 1/4 SAE	1
14	1-512-010005-09	NUT, LOCK 1/2-13	2

# Shank and Spring Clamp Assembly

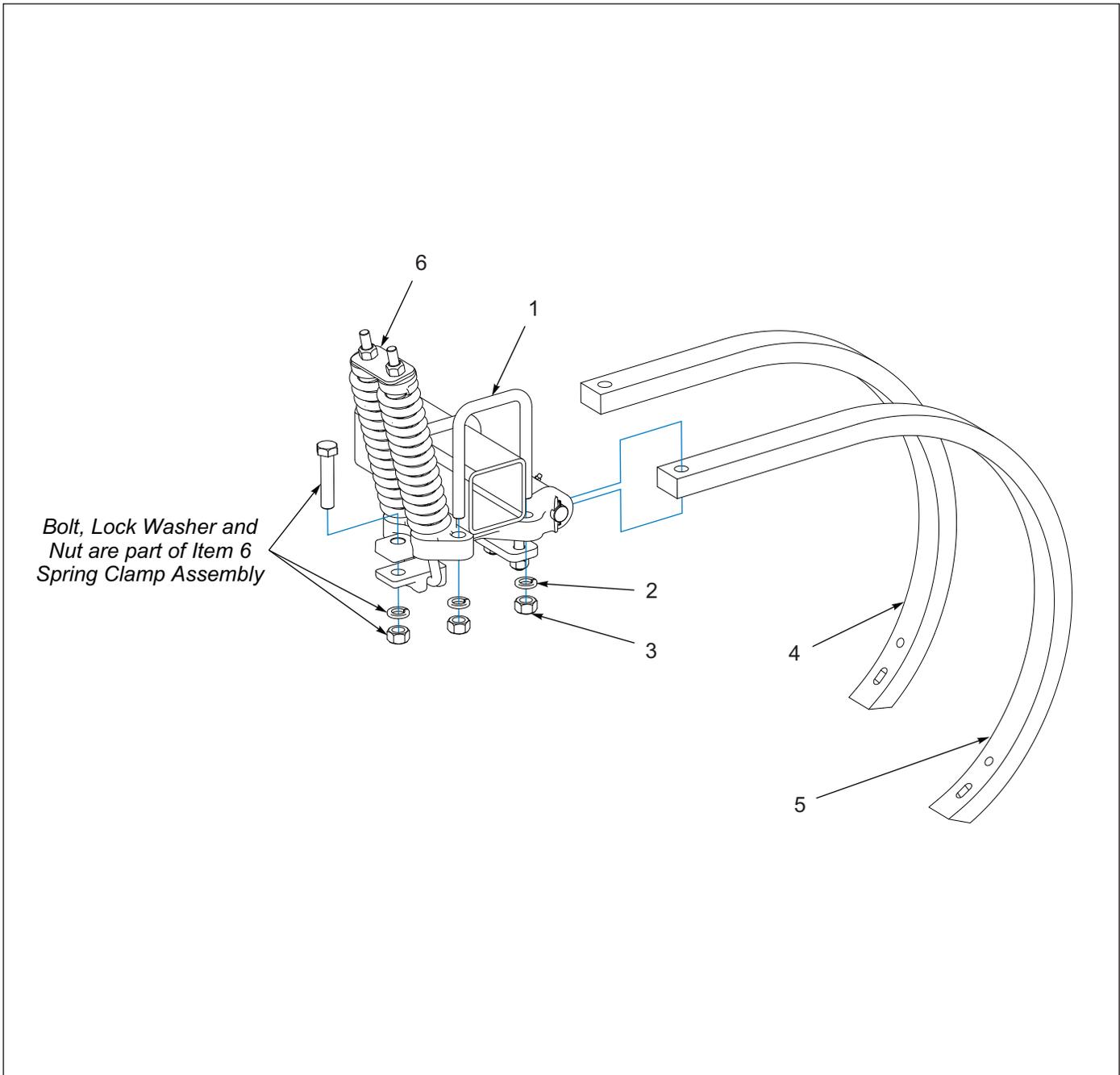


Figure 1-18: Shank and Spring Clamp Assembly

## Shank and Spring Clamp Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
	1K724	SHANK & SPRING CLAMP ASSEMBLY	1
1	4J293	U-BOLT, 3/4-10 X 6-3/8 X 4-3/4	2
2	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	4
3	1-512-010007-12	NUT, HEX 3/4-10 GR2, ZP	4
4	3J971	SHANK (38 DEGREE POINT ANGLE)	1
5	2J644	SHANK (51 DEGREE POINT ANGLE) (OPTIONAL)	1
6	4J681	SPRING CLAMP ASM (SEE PAGE 1-28)	1



# Spring Clamp Assembly

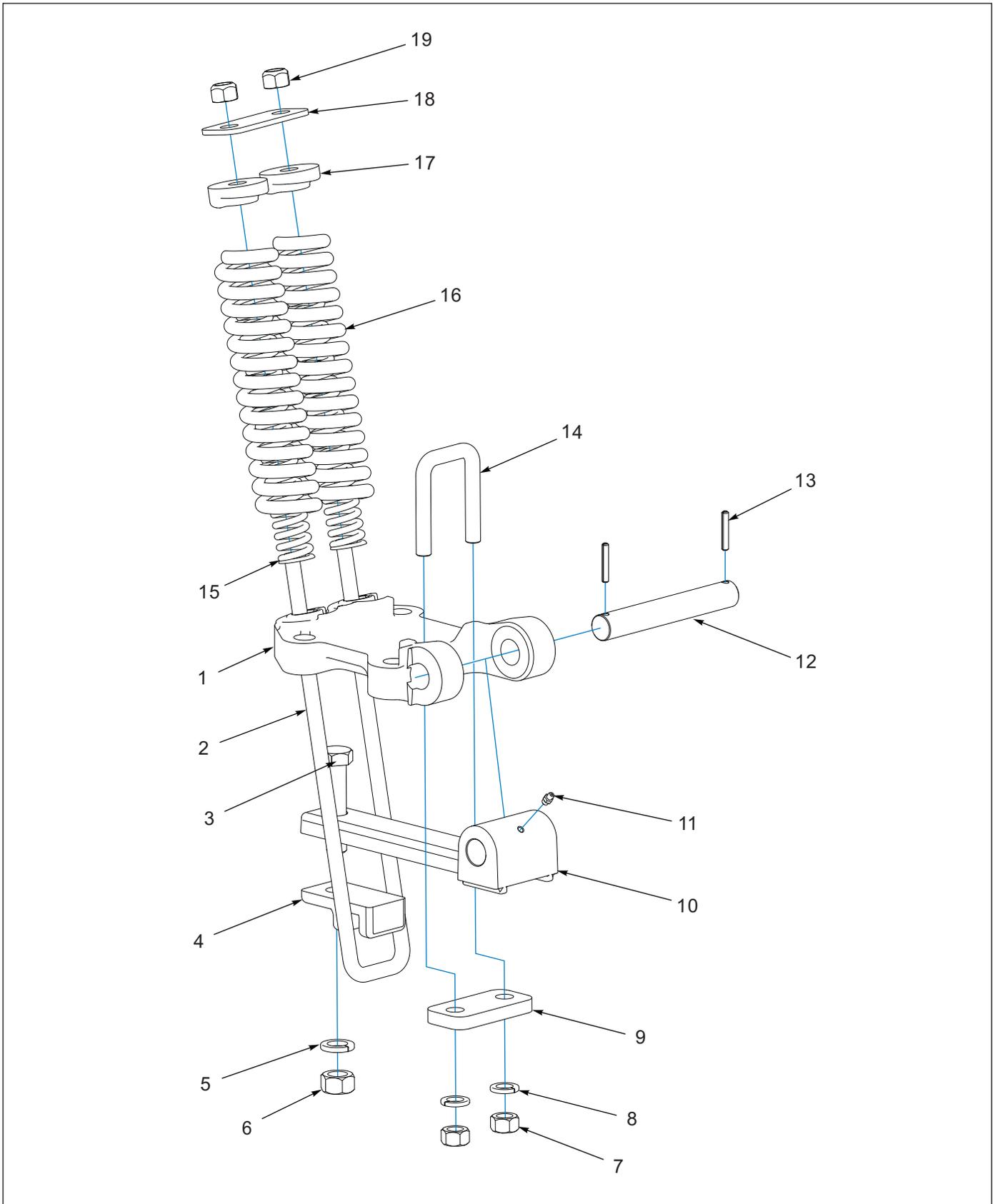


Figure 1-19: Spring Clamp Assembly

## Spring Clamp Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
	4J681	SPRING CLAMP ASM	1
1	4J675	SHANK CLAMP	1
2	2J096	U-BOLT, 5/8-11 X 16 X 2-3/4	1
3	141776	SCREW, HXCP 3/4-10UNC X 3-1/2, GR5	1
4	2J091	U-BOLT CLIP	1
5	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	1
6	1-512-010007-12	NUT, HEX 3/4-10 GR2, ZP	1
7	1-512-010007-11	NUT, HEX 5/8-11 GR2, ZP	2
8	1-861-010034-15	WASHER, LKG, HLCL SPR, 5/8	2
9	6D280	STRAP (4-1/8" LONG)	1
10	2J092	SHANK HOLDER	1
11	1-298-010001-1	ZERK FITTING 1/4 SAE	1
12	8J130	PIN, 1.0 X 6.875 PLATED	1
13	1-647-010004217	SPRING PIN, SLOTTED 1/4 X 1-1/2	2
14	2J094	U-BOLT, 5/8-11 X 3-3/8 X 2-5/8	1
15	6D362	COMPRESSION SPRING - INNER	2
16	4K076	COMPRESSION SPRING - OUTER	2
17	6J459	CAP	2
18	6D409	STRAP (4-1/4" LONG)	1
19	1-512-010005-13	NUT, HEX SLFLKG GRB 5/8-11	2

ILLUSTRATED PARTS LIST

Shank and Rigid Clamp

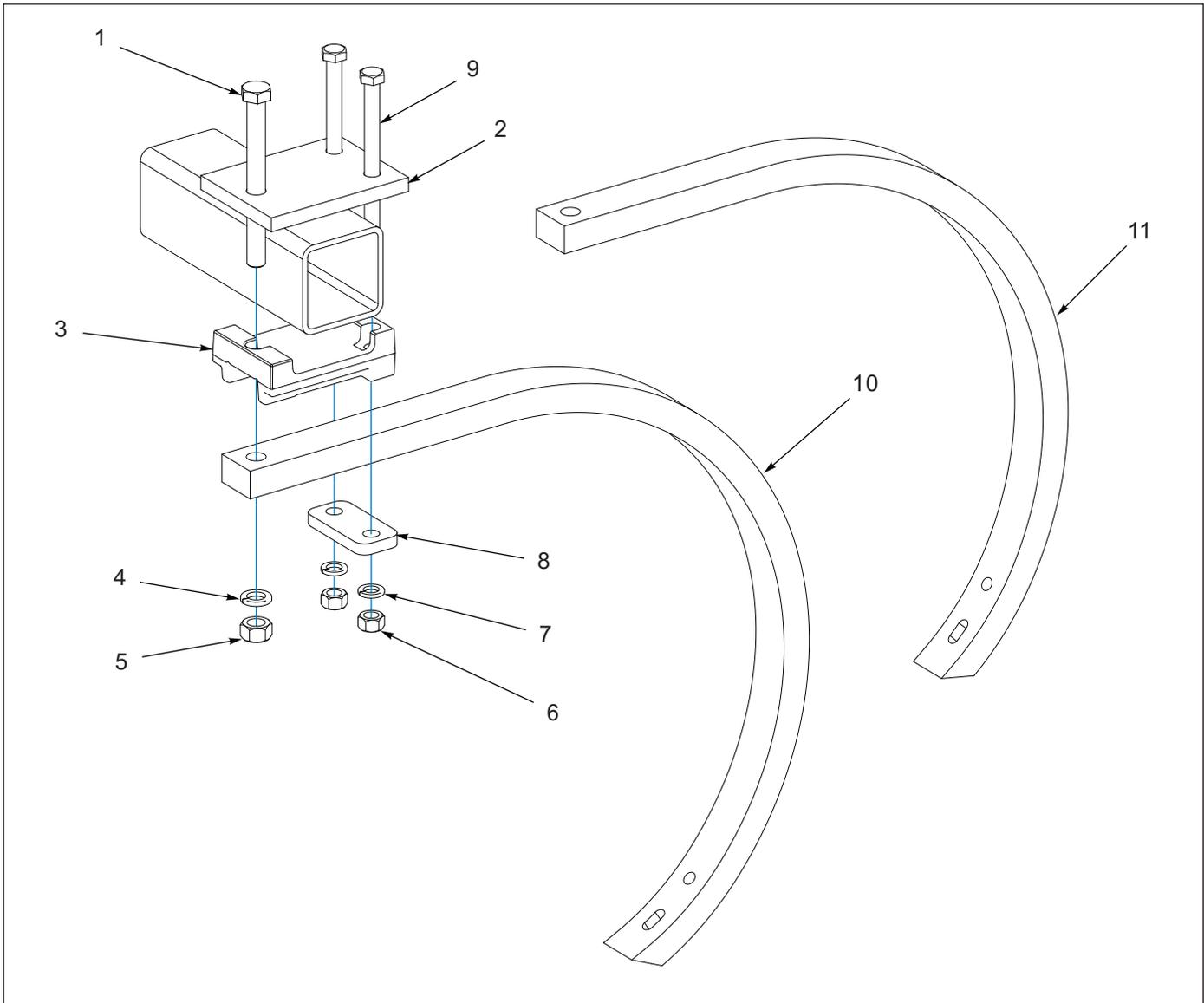


Figure 1-20: Shank and Rigid Clamp

Shank and Rigid Clamp

ITEM	PART NUMBER	DESCRIPTION	QTY
	2K116	SHANK & RIGID CLAMP (INCLUDES ITEMS 1-9)	1
1	1-654-010061-20	SCREW, HX CP 3/4-10UNC X 7-1/2, G5	1
2	6D298	PLATE	1
3	6D234	SHANK SUPPORT	1
4	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	1
5	1-512-010007-12	NUT, HEX 3/4-10	1
6	1-512-010007-11	NUT, HEX 5/8-11	2
7	1-861-010034-15	WASHER, LKG HLCL SPR, 5/8	2
8	6D280	PLATE	1
9	1-654-010059-21	SCREW, HEX CAP, 5/8-11 X 8, GR5	2
10	3J971	SHANK (38 DEGREE POINT ANGLE)	1
11	2J644	SHANK (51 DEGREE POINT ANGLE) (OPTIONAL)	1



Points

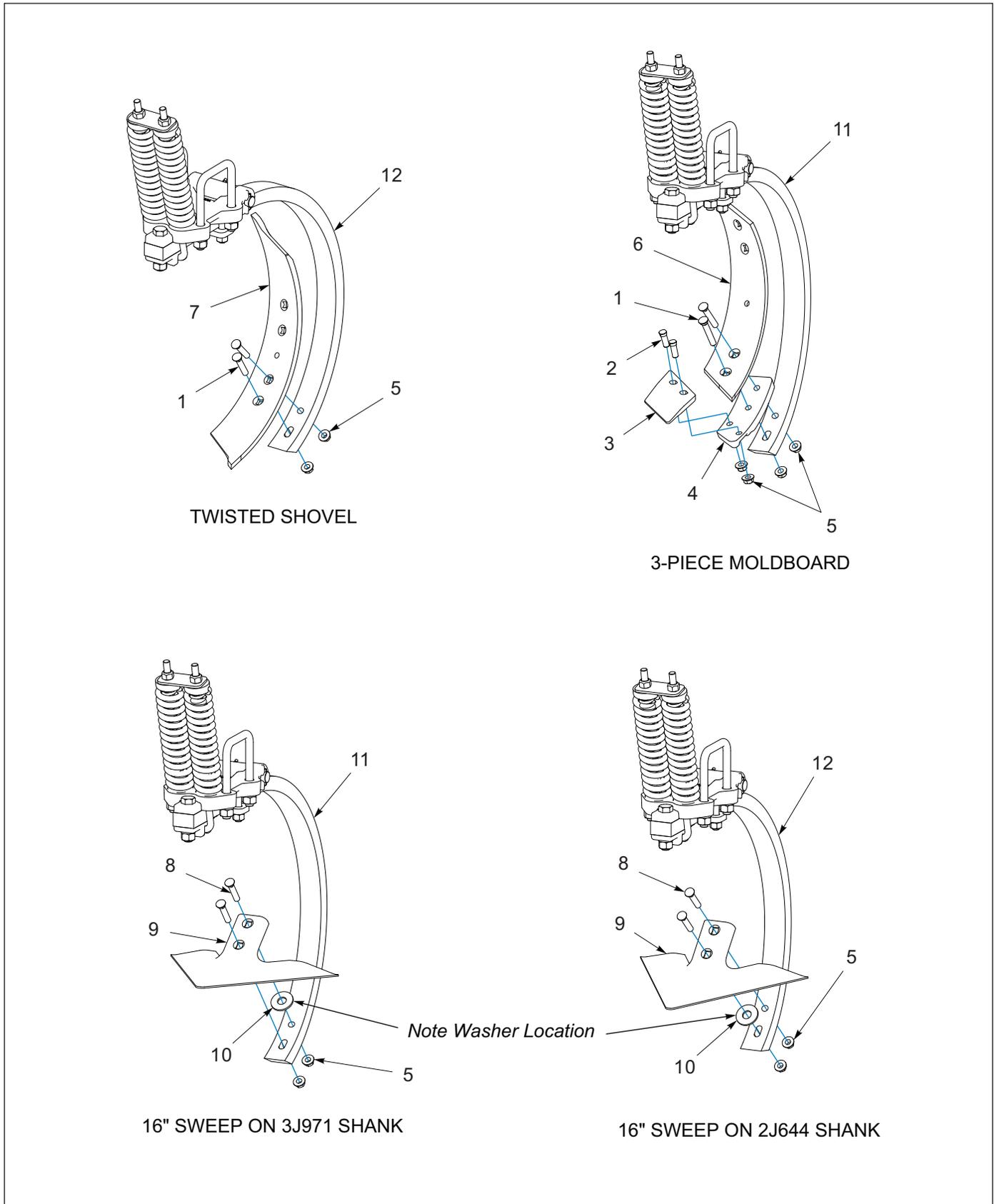


Figure 1-21: Points

## Points

ITEM	PART NUMBER	DESCRIPTION	QTY
1	1/2-13X3PLOW	PLOW BOLT, GR5	2
2	3J883	PLOW BOLT (1/2-13 X 1-1/2 CLIPPED HEAD)	2
3	4J695	LH 4" REGULAR SHAPE POINT	1
3	4J694	RH 4" REGULAR SHAPE POINT (SHOWN)	1
3	4J762	LH 4" HARD SURFACED POINT	1
3	4J761	RH 4" HARD SURFACED POINT	1
4	2-691-010007	FROG RT (SHOWN)	1
4	2-691-010008	FROG LT	1
5	4K552	SELF-LOCKING FLANGE NUT, 1/2-13	2
6	EP6137	MLDBRD - PLAIN LH	1
6	EP6138	MLDBRD - PLAIN RH (SHOWN)	1
6	4J764	LH 4" HARD SURFACED MOLDBOARD	1
6	4J763	RH 4" HARD SURFACED MOLDBOARD	1
7	66827	TW SHVL LH 1/2 X 4W X 26	1
7	66826	TW SHVL RH 1/2 X 4W X 26 (SHOWN)	1
8	1/2-13X2-1/2PLW	PLOW BOLT, ZP, GR5, #3HD	2
9	2K741	16" SWEEP	1
10	1-861-010032-21	WASHER, FLAT 3/4 W, ZP/CD	1
11	3J971	SHANK (38 DEGREE POINT ANGLE)	1
12	2J644	SHANK (51 DEGREE POINT ANGLE) (OPTIONAL)	1

# Manual Coultter 7 Shank

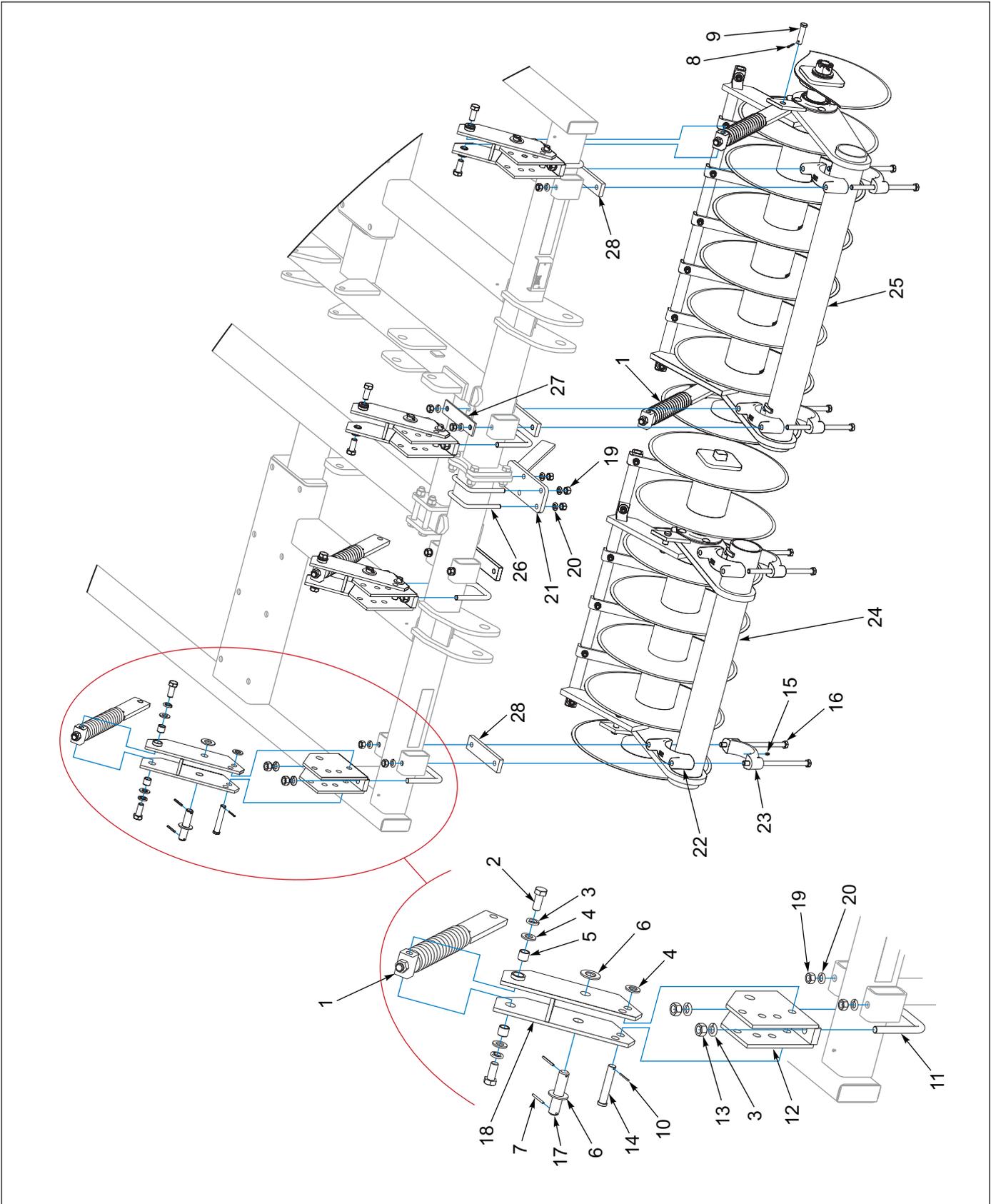


Figure 1-22: Manual Coultter 7 Shank

## Manual Coulter 7 Shank

ITEM	PART NUMBER	DESCRIPTION	QTY
1	7J567	SPRING ROD ASSEMBLY (SEE PAGE 1-42)	4
2	1-654-010061-04	SCREW, HX CP 3/4-10UNC X 1-3/4	8
3	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	16
4	1-861-010032-20	WASHER, FLAT, 3/4 N ZP/CD	12
5	7J422	BUSHING (0.76 X 1 X 0.875)	8
6	1-861-010032-24	WASHER FL 1IN NARROW, ZP	8
7	1-647-010004181	ROLL PIN, 3/16 X 2	8
8	110-0354	5/32 X 1-1/2 COTTER PIN, ZP	4
9	2J997	CLEVIS PIN (3/4 X 2-3/4)	4
10	110-0351	COTTER PIN 1/8 X 1-1/4, ZP	4
11	3J451	U-BOLT, 3/4-10 X 4 X 4	4
12	7J570	FRAME BRACKET	4
13	1-512-010007-12	NUT, HEX 3/4-10 GR2, ZP	8
14	5C077	CLEVIS PIN (3/4 X 4)	4
15	1-298-010001-1	ZERK FITTING 1/4 SAE	1
16	107-0023	5/8-11 X 11LG HHCS GR5, ZP	8
17	2J525	PIN (1 X 4-5/8)	4
18	7J573	SPRING ANCHOR	4
19	1-512-010007-11	NUT, HEX 5/8-11 GR2, ZP	12
20	1-861-010034-15	WASHER, LKG, HLCL SPR, 5/8	12
21	7J683	SCRAPER BRACKET (CENTER ONLY)	1
22	6D274	AXLE BEARING	4
23	6D309	AXLE TOP BEARING ASSEMBLY (INCLUDES ITEM 15)	4
24	7J670	COULTER GANG ASM 7 (SEE PAGE 1-44) (RH)	1
25	7J671	COULTER GANG ASM 8 (SEE PAGE 1-44) (LH)	1
26	9D989	U-BOLT, 5/8-11 X 5-5/8 X 4-11/16	2
27	6C900	CLEVIS STRAP (8" LONG)	1
28	7J597	STRAP (8-1/4" LONG)	4

# Hydraulic Coultter (7 and 9 Shank)

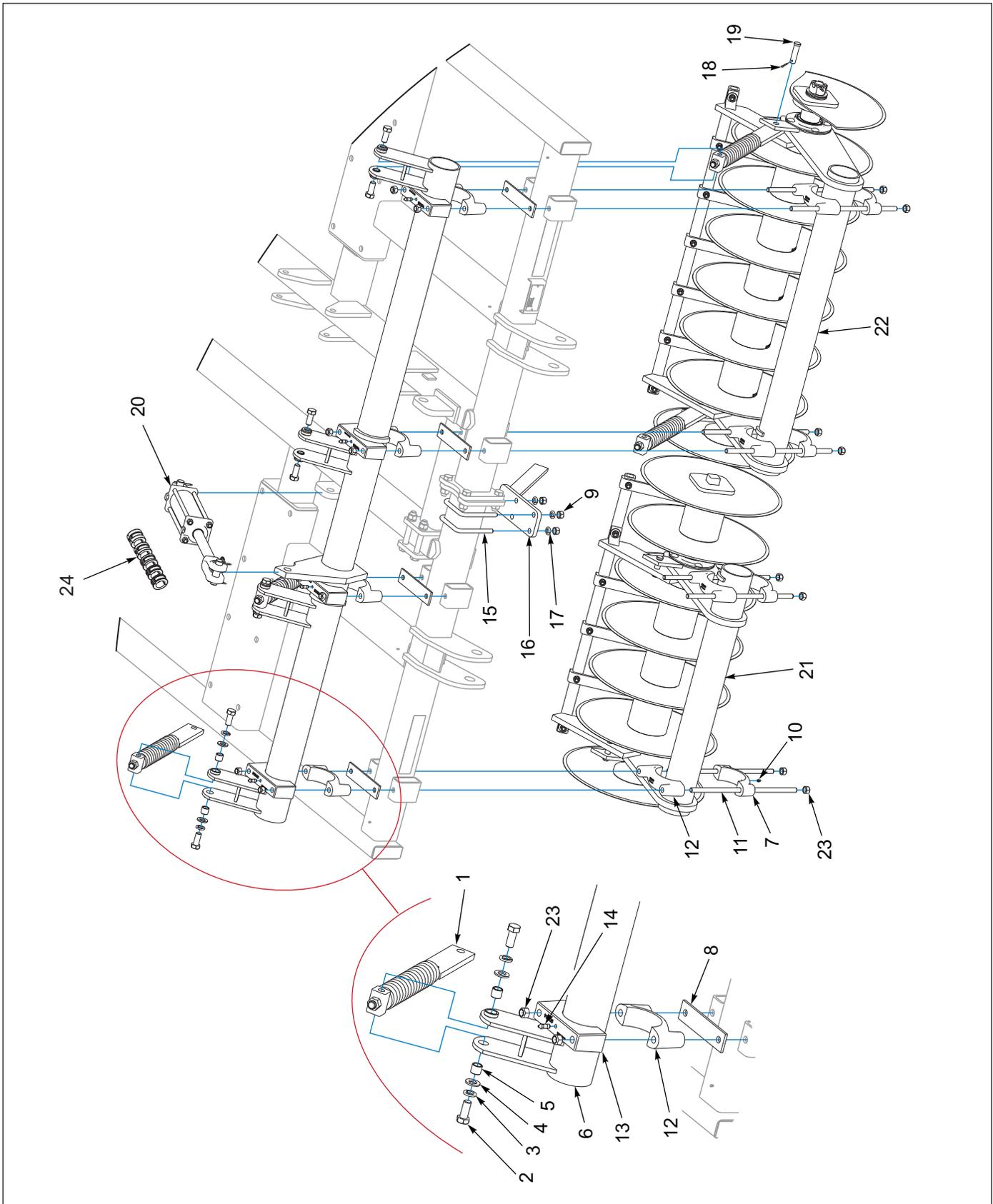


Figure 1-23: Hydraulic Coultter (7 and 9 Shank)

## Hydraulic Coultter (7 and 9 Shank)

ITEM	PART NUMBER	DESCRIPTION	QTY
1	7J567	SPRING ROD ASSEMBLY <b>(SEE PAGE 1-42)</b>	4
2	1-654-010061-04	SCREW, HX CP 3/4-10UNC X 1-3/4	8
3	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	8
4	1-861-010032-20	WASHER, FLAT, 3/4 N, ZP/CD	8
5	7J422	BUSHING <b>(0.76 X 1 X 0.875)</b>	8
6	7J646	SPRING ROCKSHAFT, 7 SHANK	1
6	7J650	SPRING ROCKSHAFT, 9 SHANK	1
7	6D309	AXLE TOP BEARING ASSEMBLY <b>(INCLUDES ITEM 10)</b>	4
8	6C900	CLEVIS STRAP <b>(8" LONG)</b>	4
9	1-512-010007-11	NUT, HEX 5/8-11 GR2, ZP	4
10	1-298-010001-1	ZERK FITTING 1/4 SAE	1
11	7J423	STUD <b>(5/8-11 X 18)</b>	8
12	6D274	AXLE BEARING	8
13	9D653	AXLE BEARING ASSEMBLY <b>(INCLUDES ITEM 14)</b>	4
14	2C643	GREASE FITTING	1
15	9D989	U-BOLT, 5/8-11 X 5-5/8 X 4-11/16	2
16	7J683	SCRAPER BRACKET (CENTER ONLY)	1
17	1-861-010034-15	WASHER, LKG, HLCL SPR, 5/8	4
18	110-0354	5/32 X 1-1/2 COTTER PIN, ZP	4
19	2J997	CLEVIS PIN <b>(3/4 X 2-3/4)</b>	4
20	5J280	HYD CYLINDER - 3 X 8 <b>(SEE PAGE 1-56)</b>	1
21	7J670	COULTER GANG ASM7 <b>(7 SHANK) (SEE PAGE 1-44) (RH)</b>	1
21	7J672	COULTER GANG ASM9 <b>(9 SHANK) (SEE PAGE 1-44) (RH)</b>	1
22	7J671	COULTER GANG ASM8 <b>(7 SHANK) (SEE PAGE 1-48) (LH)</b>	1
22	7J673	COULTER GANG ASM10 <b>(9 SHANK) (SEE PAGE 1-48) (LH)</b>	1
23	1-512-010005-13	NUT, LOCK 5/8-11	16
24	1P332	STROKE CONTROL SEG SET, 1 1/2"	1



## Hydraulic Coultter (11 Shank)

ITEM	PART NUMBER	DESCRIPTION	QTY
1	7J567	SPRING ROD ASSEMBLY <b>(SEE PAGE 1-42)</b>	6
2	1-654-010061-04	SCREW, HX CP 3/4-10UNC X 1-3/4	12
3	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	12
4	1-861-010032-20	WASHER, FLAT, 3/4 N, ZP/CD	12
5	7J422	BUSHING <b>(0.76 X 1 X 0.875)</b>	12
6	7J847	SPRING ROCKSHAFT	1
7	6D309	AXLE TOP BEARING ASSEMBLY <b>(INCLUDES ITEM 10)</b>	6
8	6C900	CLEVIS STRAP <b>(8" LONG)</b>	7
9	1-512-010005-13	NUT, LOCK 5/8-11	26
10	1-298-010001-1	ZERK FITTING 1/4 SAE	1
11	7J423	STUD <b>(5/8-11 X 18)</b>	12
12	6D274	AXLE BEARING	13
13	9D653	AXLE BEARING <b>(INCLUDES ITEM 14)</b>	7
14	2C643	GREASE FITTING	1
15	110-0354	5/32 X 1-1/2 COTTER PIN, ZP	6
16	2J997	CLEVIS PIN <b>(3/4 X 2-3/4)</b>	6
17	5J280	HYD CYLINDER - 3 X 8 <b>(SEE PAGE 1-56)</b>	1
18	7J867	SCREW, HX CP 5/8-11 X 12, GR5, ZP	2
19	1-654-010055-14	SCREW, HX CP, 1/2-13UNC X 4-1/2, G5	4
20	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	4
21	1-512-010007-09	NUT, HEX 1/2-13, ZP	4
22	7J835	COUNTERGANG ASM 7 <b>(SEE PAGE 1-48) (ENDS)</b>	2
23	7J836	COUNTERGANG ASM 9 <b>(SEE PAGE 1-48) (CENTER)</b>	1
24	7J854	STRAP <b>(23-3/4 LONG)</b>	2
25	7J855	STRAP <b>(8-3/4 LONG)</b>	2
26	1P332	STROKE CONTROL SEG SET, 1 1/2"	1



## Hydraulic Coultter (13 Shank)

ITEM	PART NUMBER	DESCRIPTION	QTY
1	7J567	SPRING ROD ASSEMBLY <b>(SEE PAGE 1-42)</b>	6
2	1-654-010061-04	SCREW, HX CP 3/4-10UNC X 1-3/4	12
3	1-861-010034-17	WASHER, LKG, HLCL SPR, 3/4	12
4	1-861-010032-20	WASHER, FLAT, 3/4 N, ZP/CD	12
5	7J422	BUSHING <b>(0.76 X 1 X 0.875)</b>	12
6	7J848	SPRING ROCKSHAFT	1
7	6D309	AXLE TOP BEARING ASSEMBLY <b>(INCLUDES ITEM 10)</b>	6
8	6C900	CLEVIS STRAP <b>(8" LONG)</b>	7
9	1-512-010005-13	NUT, LOCK 5/8-11	26
10	1-298-010001-1	ZERK FITTING 1/4 SAE	1
11	7J423	STUD <b>(5/8-11 X 18)</b>	12
12	6D274	AXLE BEARING	13
13	9D653	AXLE BEARING <b>(INCLUDES ITEM 14)</b>	7
14	2C643	GREASE FITTING	1
15	110-0354	5/32 X 1-1/2 COTTER PIN, ZP	6
16	2J997	CLEVIS PIN <b>(3/4 X 2-3/4)</b>	6
17	5J280	HYD CYLINDER - 3 X 8 <b>(SEE PAGE 1-56)</b>	1
18	7J867	SCREW, HX CAP 5/8-11 X 12, GR5, ZP	2
19	1-654-010055-14	SCREW, HX CP, 1/2-13UNC X 4-1/2, G5	4
20	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	4
21	1-512-010007-09	NUT, HEX 1/2-13, ZP	4
22	7J836	COULTER GANG ASM 9 <b>(SEE PAGE 1-48)</b>	3
23	7J854	STRAP <b>(23-3/4" LONG)</b>	2
24	7J855	STRAP <b>(8-3/4" LONG)</b>	2
25	1P332	STROKE CONTROL SEG SET, 1 1/2"	1

# Spring Rod Assembly

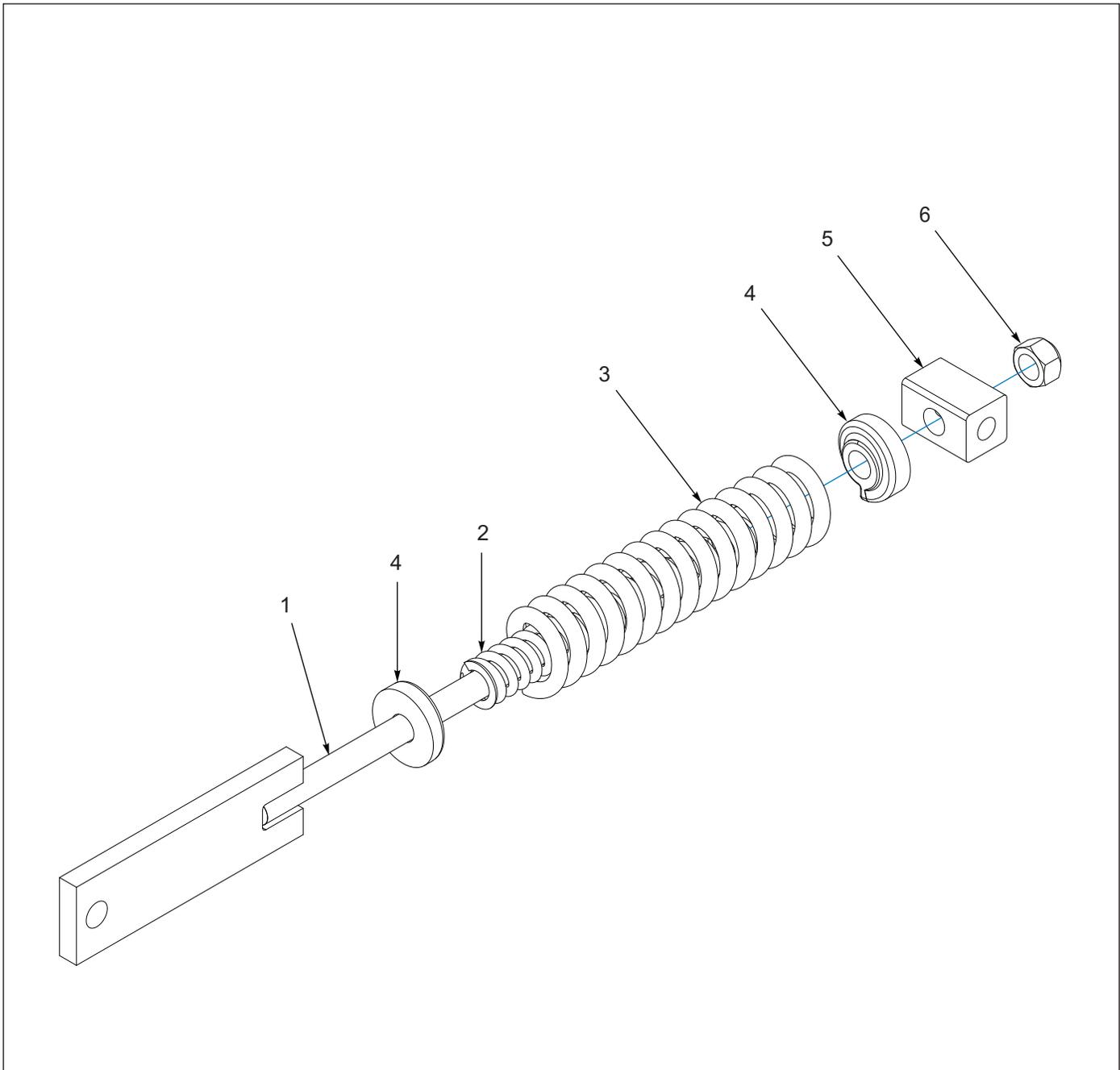


Figure 1-26: Spring Rod Assembly

## Spring Rod Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY
	7J567	SPRING ROD ASSEMBLY	1
1	7J564	SPRING ROD	1
2	6D362	COMPRESSION SPRING - INNER	1
3	6J460	COMPRESSION SPRING	1
4	7J569	CAP	2
5	7J568	BLOCK	1
6	1-512-010005-15	NUT, HEX SLFLKG GRB 3/4-10	1



### Coulter Gang Assemblies with Outer Spool (7 and 9 Coulters)

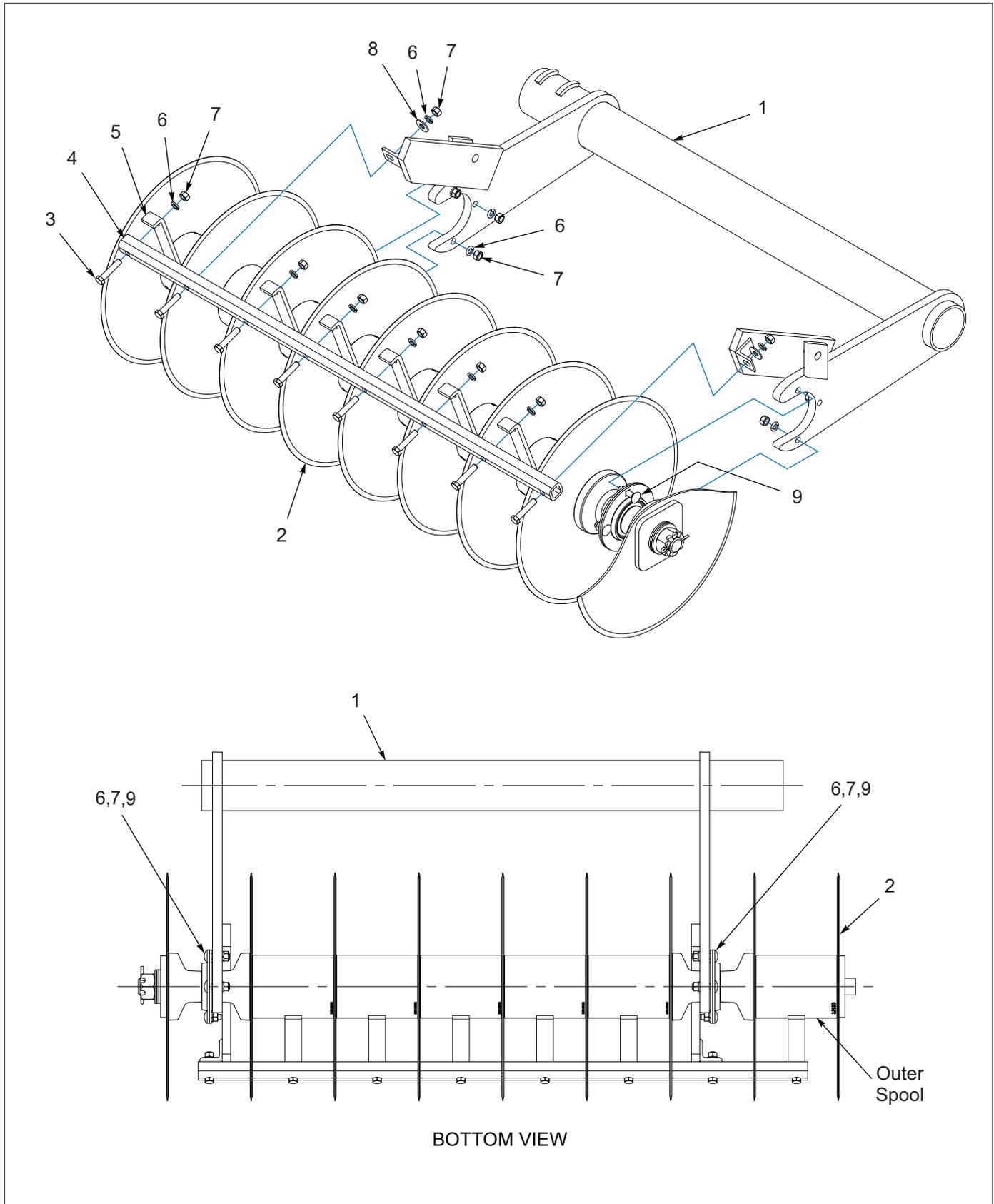


Figure 1-27: Coulter Gang Assemblies with Outer Spool (7 and 9 Coulters)

## Coulter Gang Assemblies with Outer Spool (7 and 9 Coulters)

ITEM	PART NUMBER	DESCRIPTION	QTY	
			7 Coulters	9 Coulters
		<b>MODEL</b>		
	7J670	COULTER GANG ASM 7	1	--
	7J672	COULTER GANG ASM 9 ( <b>SHOWN</b> )	--	1
1	7J666	COULTER FRAME 7	1	--
1	7J652	COULTER FRAME 9	--	1
2	7J674	COULTER AND SPOOL ASM 7 ( <b>SEE PAGE 1-46</b> )	1	--
2	7J678	COULTER AND SPOOL ASM 9 ( <b>SEE PAGE 1-46</b> )	--	1
3	1-654-010055-07	SCREW, HX CP 1/2-13UNC X 2-1/2	6	8
4	7J594	TUBE	1	--
4	7J596	TUBE	--	1
5	2J717	SCRAPER	4	6
6	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	12	14
7	1-512-010007-09	NUT, HEX 1/2-13, ZP	12	14
8	1-861-010032-15	WASHER, FLAT 1/2 W, ZP/CD	2	2
9	1-654-010070-05	SCREW, RDHD SQNCK 1/2-13 X 2, GR5	6	6

ILLUSTRATED PARTS LIST

**Coulter Spool Assemblies with Outer Spool (7 and 9 Coulters)**

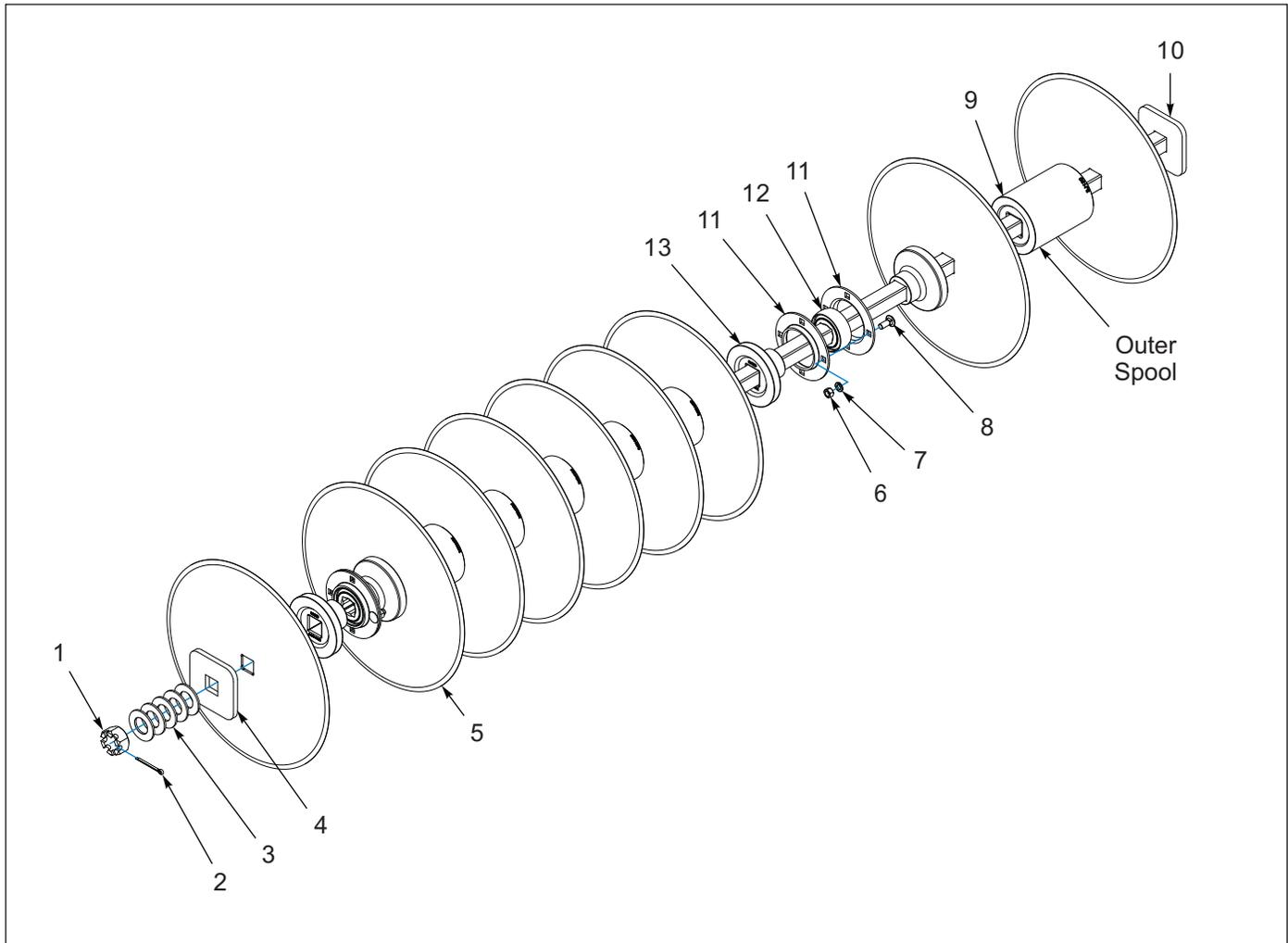


Figure 1-28: Coulter Spool Assemblies with Outer Spool (7 and 9 Coulters)

**Coulter Spool Assemblies with Outer Spool (7 and 9 Coulters)**

ITEM	PART NUMBER	DESCRIPTION	QTY	
			7 Coulters	9 Coulters
		<b>MODEL</b>		
	7J674	COULTER AND SPOOL ASM 7	1	--
	7J678	COULTER AND SPOOL ASM 9 (SHOWN)	--	1
1	1-516-010001-27	NUT, HX SLOT 1-1/2-6, ZP	1	1
2	1-557-010362-65	PIN COTTER, 1/4 X 2-1/2, ZP	1	1
3	1-861-010032-32	WASHER, FLAT ZP/CD 1-1/2	5	5
4	3J133	PLATE PAINTED	1	1
5	3J128	COULTER	7	9
6	1-512-010007-09	NUT, HEX 1/2-13, ZP	2	2
7	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	2	2
8	1-654-010070-02	SCREW, 1/2-13 X 1-1/4 RDHD SQNK	2	2
9	3J130	SPOOL	4	6
10	3J754	SHAFT WELDMENT	1	1
11	3K045	BEARING FLANGE ZINC PLATED	4	4
12	3J131	BEARING	2	2
13	3J129	SPOOL HALF	4	4



# Coulter Gang Assemblies

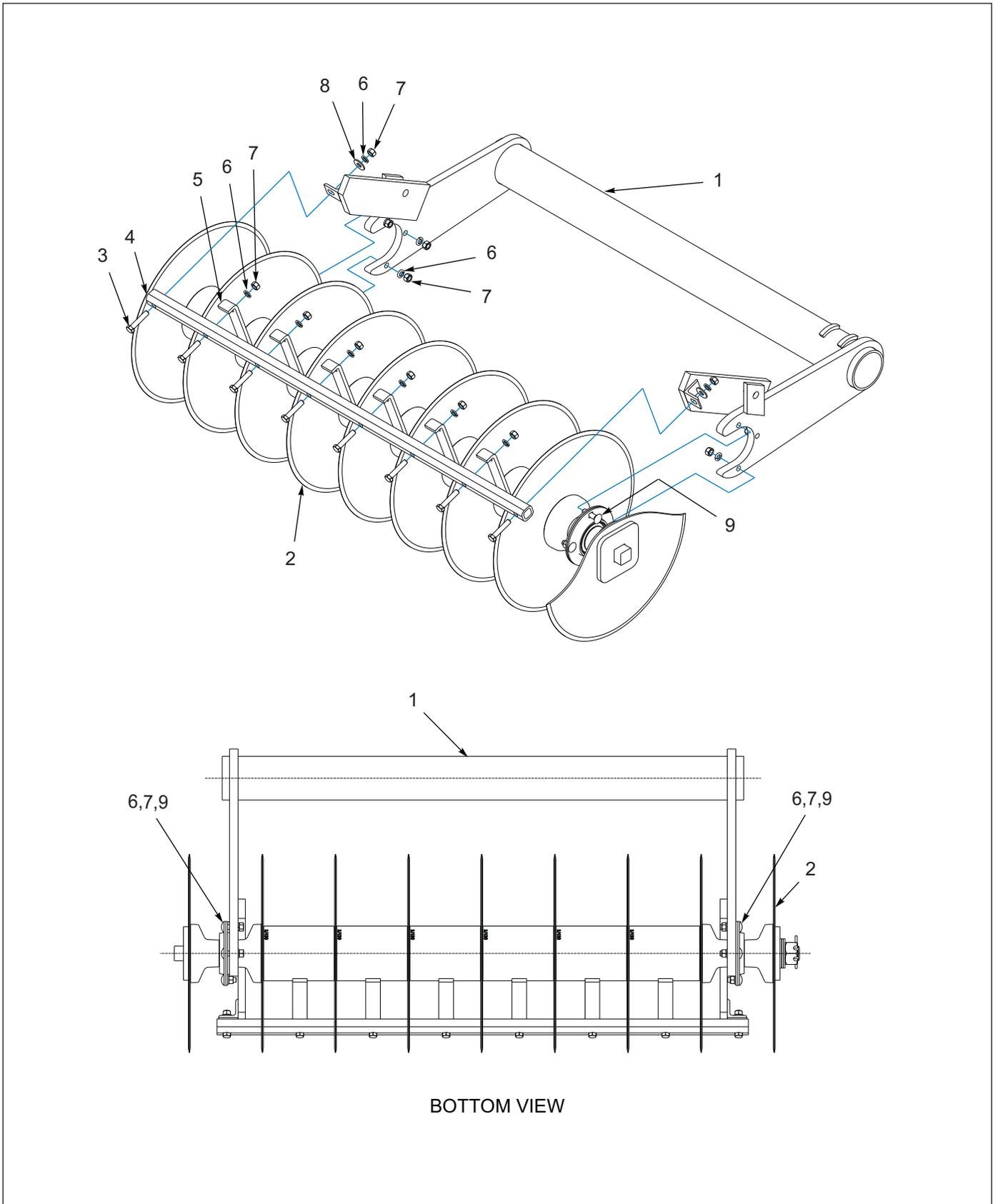


Figure 1-29: Coulter Gang Assemblies

## Coulter Gang Assemblies

ITEM	PART NUMBER	DESCRIPTON	QTY			
			7	8	9	10
		<b>NUMBER OF COULTERS</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
	7J835	COULTER GANG ASM 7	1	--	--	--
	7J671	COULTER GANG ASM 8	--	1	--	--
	7J836	COULTER GANG ASM 9 ( <b>SHOWN</b> )	--	--	1	--
	7J673	COULTER GANG ASM 10	--	--	--	1
1	7J839	COULTER FRAME	1	--	--	--
1	7J664	COULTER FRAME	--	1	--	--
1	7J840	COULTER FRAME	--	--	1	--
1	7J551	COULTER FRAME	--	--	--	1
2	7J833	COULTER & SPOOL ASM ( <b>SEE PAGE 1-50</b> )	1	--	--	--
2	7J675	COULTER AND SPOOL ASM 8 ( <b>SEE PAGE 1-50</b> )	--	1	--	--
2	7J834	COULTER & SPOOL ASM ( <b>SEE PAGE 1-50</b> )	--	--	1	--
2	7J679	COULTER AND SPOOL ASM 10 ( <b>SEE PAGE 1-50</b> )	--	--	--	1
3	1-654-010055-07	SCREW, HX CP 1/2-13UNC X 2-1/2	6	7	8	9
4	7J594	TUBE	1	--	--	--
4	7J593	TUBE	--	1	--	--
4	7J596	TUBE	--	--	1	--
4	7J595	TUBE	--	--	--	1
5	2J717	SCRAPER	4	5	6	7
6	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	12	13	14	15
7	1-512-010007-09	NUT, HEX 1/2-13, ZP	12	13	14	15
8	1-861-010032-15	WASHER, FLAT 1/2 W, ZP/CD	2	2	2	2
9	1-654-010070-05	SCREW, RDHD SQNCK 1/2-13 X 2, GR5	6	6	6	6

### Coulter and Spool Assemblies

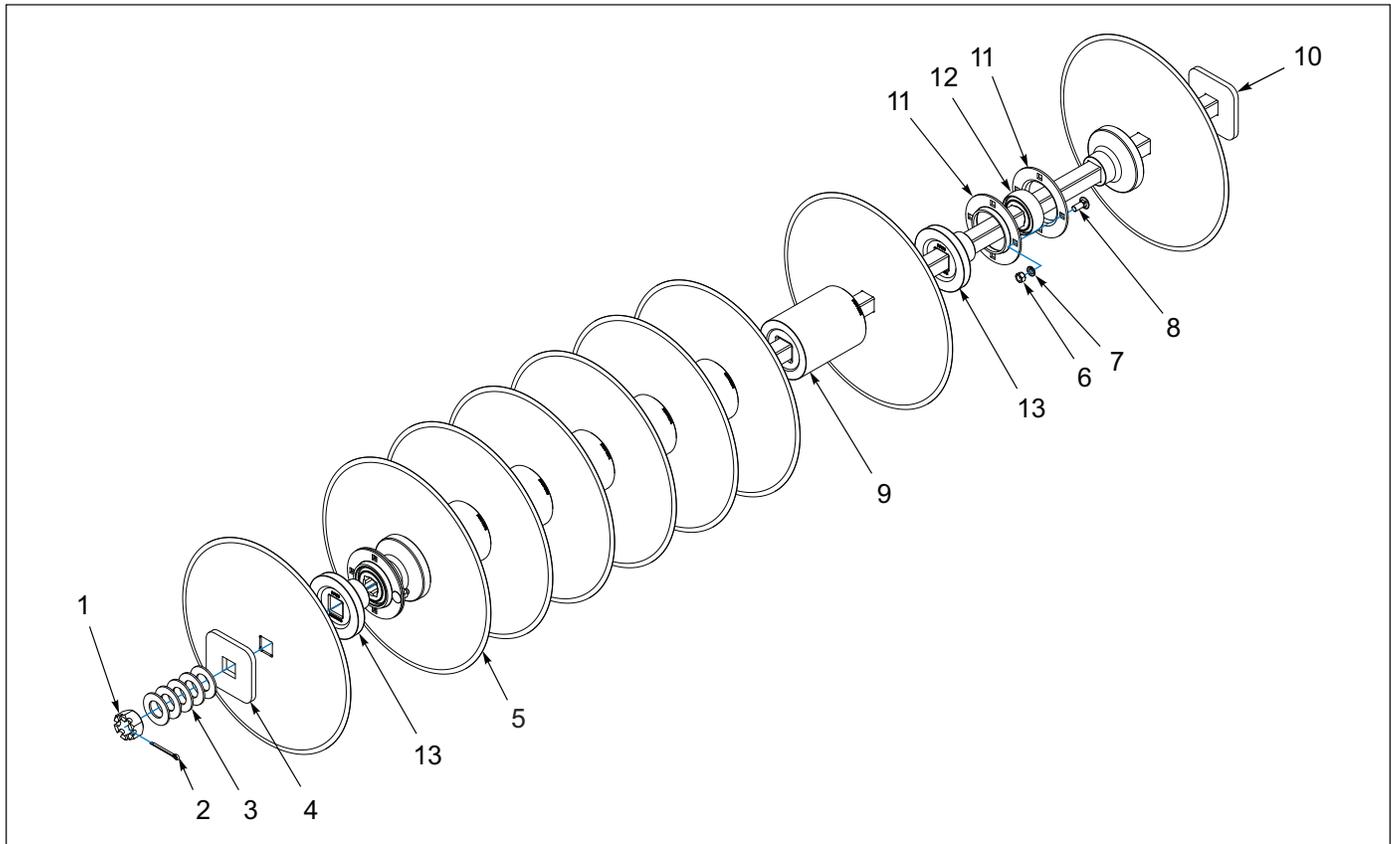


Figure 1-30: Coulter and Spool Assemblies

### Coulter and Spool Assemblies

ITEM	PART NUMBER	DESCRIPTION	QTY			
		<b>NUMBER OF COULTERS</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
	7J833	COULTER & SPOOL ASM 7	1	--	--	--
	7J675	COULTER AND SPOOL ASM 8	--	1	--	--
	7J834	COULTER AND SPOOL ASM 9 (SHOWN)	--	--	1	--
	7J679	COULTER AND SPOOL ASM 10	--	--	--	1
1	1-516-010001-27	NUT, HX SLOT 1-1/2-6, ZP	1	1	1	1
2	1-557-010362-65	PIN COTTER, 1/4 X 2-1/2, ZP	1	1	1	1
3	1-861-010032-32	WASHER, FLAT ZP/CD, 1-1/2	5	5	5	5
4	3J133	PLATE PAINTED	1	1	1	1
5	3J128	COULTER	7	8	9	10
6	1-512-010007-09	NUT, HEX 1/2-13, ZP	2	2	2	2
7	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	2	2	2	2
8	1-654-010070-02	SCREW, 1/2-13 X 1-1/4 RDHD SQNK	2	2	2	2
9	3J130	SPOOL	4	5	6	7
10	3J754	SHAFT WELDMENT	1	--	--	--
10	3J753	SHAFT WELDMENT	--	1	--	--
10	3J751	SHAFT WELDMENT	--	--	1	--
10	3J752	SHAFT WELDMENT	--	--	--	1
11	3K045	BEARING FLANGE ZINC PLATED	4	4	4	4
12	3J131	BEARING	2	2	2	2
13	3J129	SPOOL HALF	4	4	4	4

## Hydraulic Layout

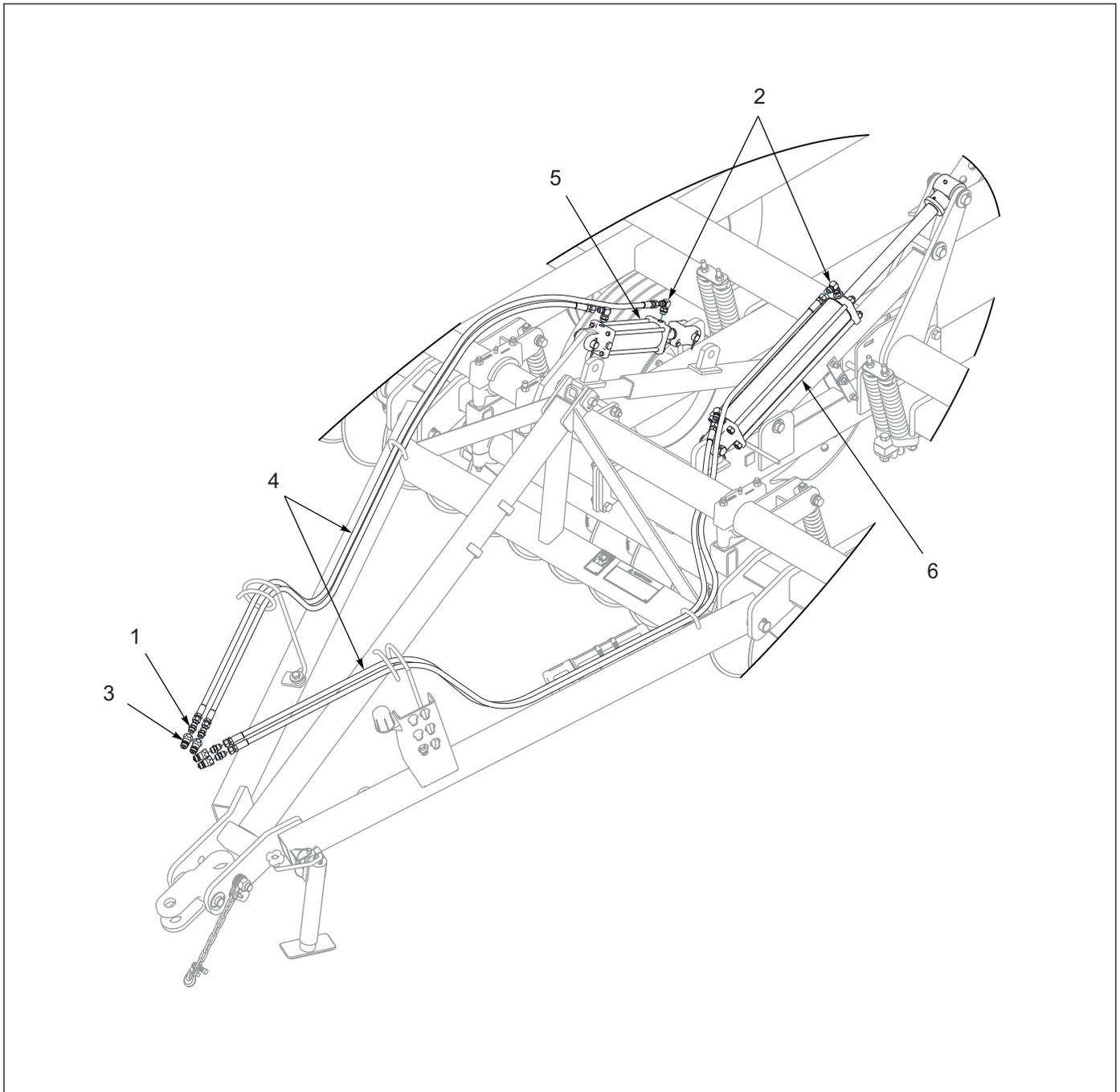


Figure 1-31: Hydraulic Layout

## Hydraulic Layout

ITEM	PART NUMBER	DESCRIPTION	QTY
1	202702-8-8S	ADAPTER, 08MJ X 08MOR	4
2	2062-8-8S	ELBOW, 08MJ X 08MOR	4
3	141828	MALE COUPLER, 8 O-RING	4
4	159569	HOSE ASM, 3/8 X 161, 8FJS X 8FJS	4
5	5J280	HYD CYLINDER - 3 X 8 (SEE PAGE 1-56)	1
6	9K733	HYDRAULIC CYLINDER 3-1/2 X 16 (SEE PAGE 1-59)	1

Warning Light Kit (Before 08/31/2013)

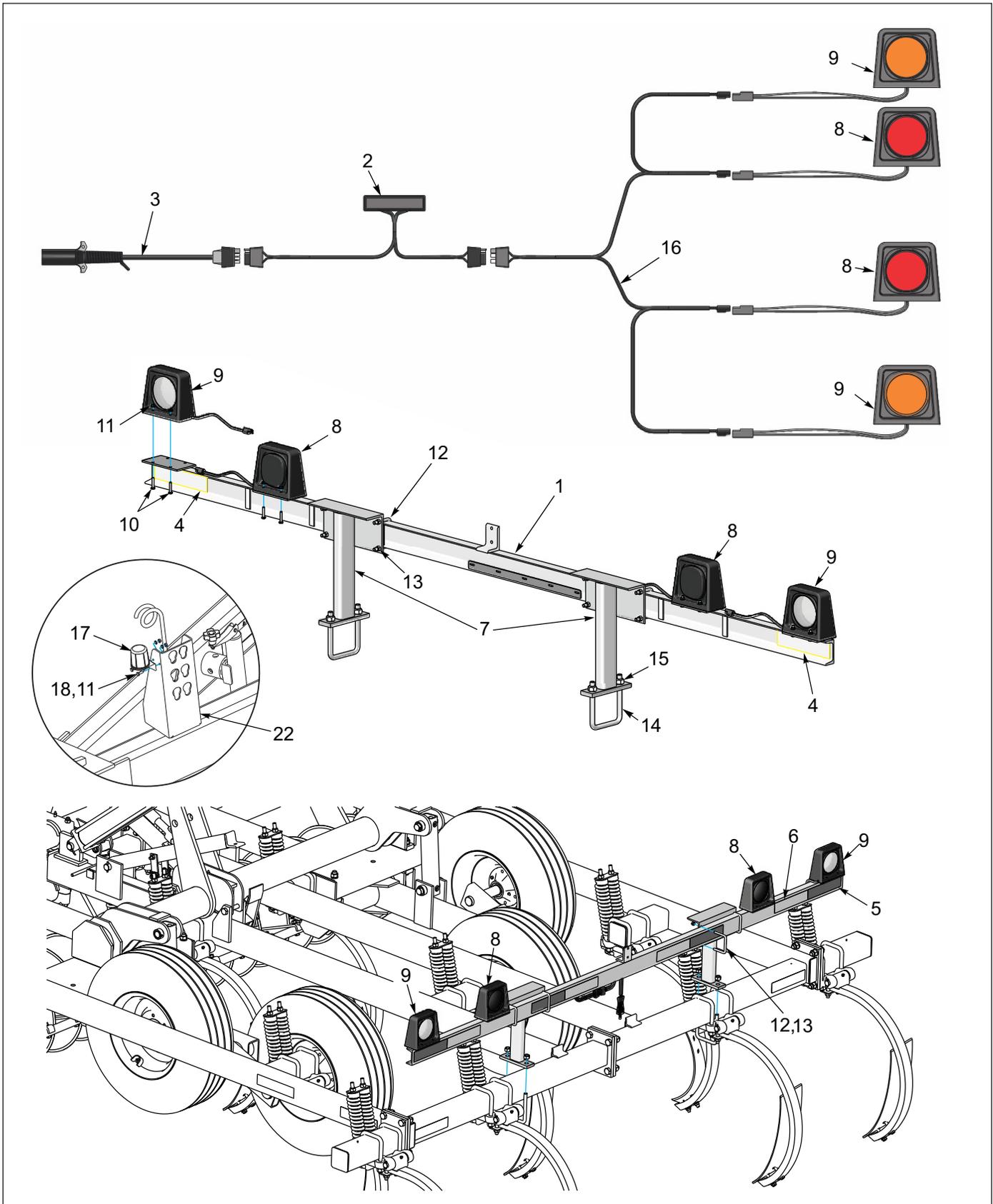


Figure 1-32: Warning Light Kit (Before 08/31/2013)

**Warning Light Kit (Before 08/31/2013)**

ITEM	PART NUMBER	DESCRIPTION	QTY
1	9K148	117" LIGHT BAR WELDMENT (7 AND 9 SHANK)	1
1	9K149	177" LIGHT BAR WELDMENT (11 AND 13 SHANK)	1
2	8K661	LIGHT MODULE	1
3	4K864	AG HARNESS, 25'	1
4	528934	REFLECTOR - YELLOW	2
5	528933	REFLECTOR - RED	4
6	528938	STRIPE, ORANGE	4
7	9K223	STRAIGHT LIGHT MOUNT	2
8	8K660	RED LIGHT	2
9	8K659	AMBER LIGHT	2
10	1-654-010047-07	SCREW, HX CP 1/4-20UNC X 1-1/4, G5	16
11	108417	NUT SPIRAL 1/4-20HX FG	18
12	8K782	U-BOLT, 3/8 X 2-1/2 X 3-3/8	4
13	1-512-010005-05	NUT, HEX SLFLKG GRB 3/8-16	8
14	9D989	U-BOLT, 5/8-11 X 5-5/8 X 4-11/16	2
15	1-512-010005-13	NUT, HEX SLFLKG GRB 5/8-11	4
16	8K663	EXTENSION WISHBONE HARNESS	1
17	8K664	CONNECTOR HOLDER	1
18	1-654-010047-04	SCREW, HEX CAP, 1/4-20 X 3/4, GR5	2
19	105-0228	TYWRAP 8IN LG TY-5272MX (NOT SHOWN)	8
20	105874	TIE, STRAP PLSTC 21.5-24 X .301 (NOT SHOWN)	4
21	105-0214	TY-WRAP 1/16-1-1/8 TY-524MX (NOT SHOWN)	8
22	8K885	HOSE HOLDER	1

LED Warning Lights (After 09/01/2013)

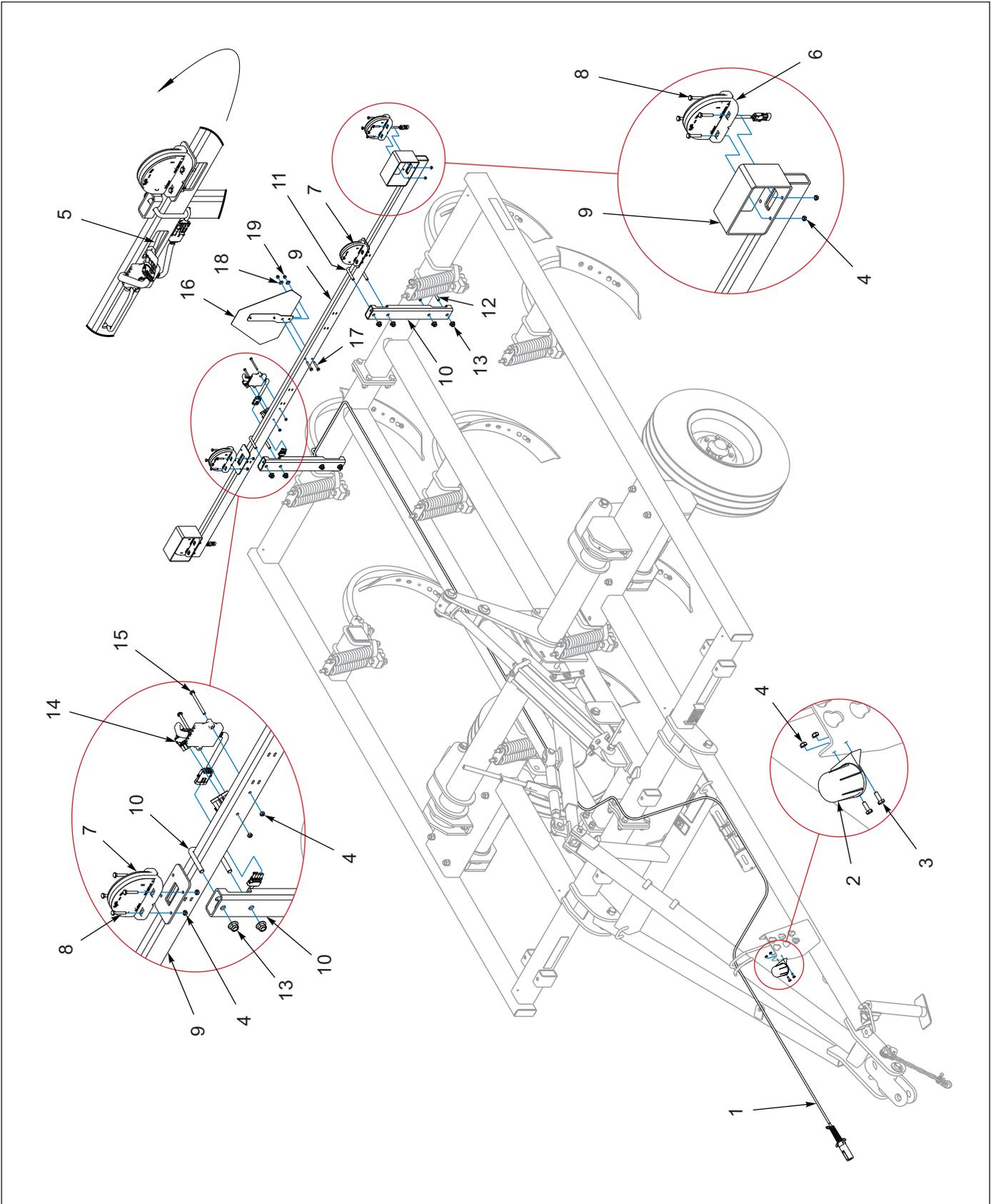


Figure 1-33: LED Warning Lights (After 09/01/2013)

## LED Warning Lights (After 09/01/2013)

ITEM	PART NUMBER	DESCRIPTION	QTY
1	175152	HARNESS, 7 PIN/4 PIN WP	1
2	2-368-010287	CONNECTOR HOLDER	1
3	1-654-010047-04	SCREW, HEX CAP, 1/4-20 X 3/4, GR5	2
4	1-512-010005-01	NUT, HEX, SLFLKG GRB 1/4-20	20
5	175151	HARNESS, LED WARNING LIGHTS	1
6	174436	LAMP, AG AMBER SINGLE LED	2
7	174435	LAMP, AG RED SINGLE LED	2
8	1-654-010047-08	SCREW, HX, CP 1/4-20UNC X 1-1/2, G5	16
9	178561	LIGHT BAR, 115" <b>(7 AND 9 SHANK) (SHOWN)</b>	1
9	178562	LIGHT BAR, 175" <b>(11 AND 13 SHANK)</b>	1
10	178558	TUBE, LIGHT BRACKET	2
11	179348	U-BOLT, 1/2-13 X 3-1/2 X 3, ZP	2
12	3J562	U-BOLT, 1/2-13 X 5-1/2 X 4-9/16	2
13	2P253	NUT, FLANGE NY-LOK 1/2-13	8
14	174437	MODULE, AG FLASHER CONTROL	1
15	1-654-010047-14	SCREW, HX CP 1/4-20UNC X 3, GR5	2
16	2P151	SMV W/BRACKET	1
17	1-654-010049-09	SCREW, HEX CAP, 5/16-18UNC X 2, GR5	2
18	1-861-010032-09	WASHER, FLAT 5/16 W	2
19	104032	NUT, HX SLK-LKG W/MYL 5/16-18	2
20	105-0228	TYWRAP 8IN LG TY-5272MX <b>(NOT SHOWN)</b>	15
21	105874	TIE, STRAP PLSTC 21.5-24 X .301 <b>(NOT SHOWN)</b>	8

ILLUSTRATED PARTS LIST

### Hydraulic Cylinder, 3 x 8 - Prince

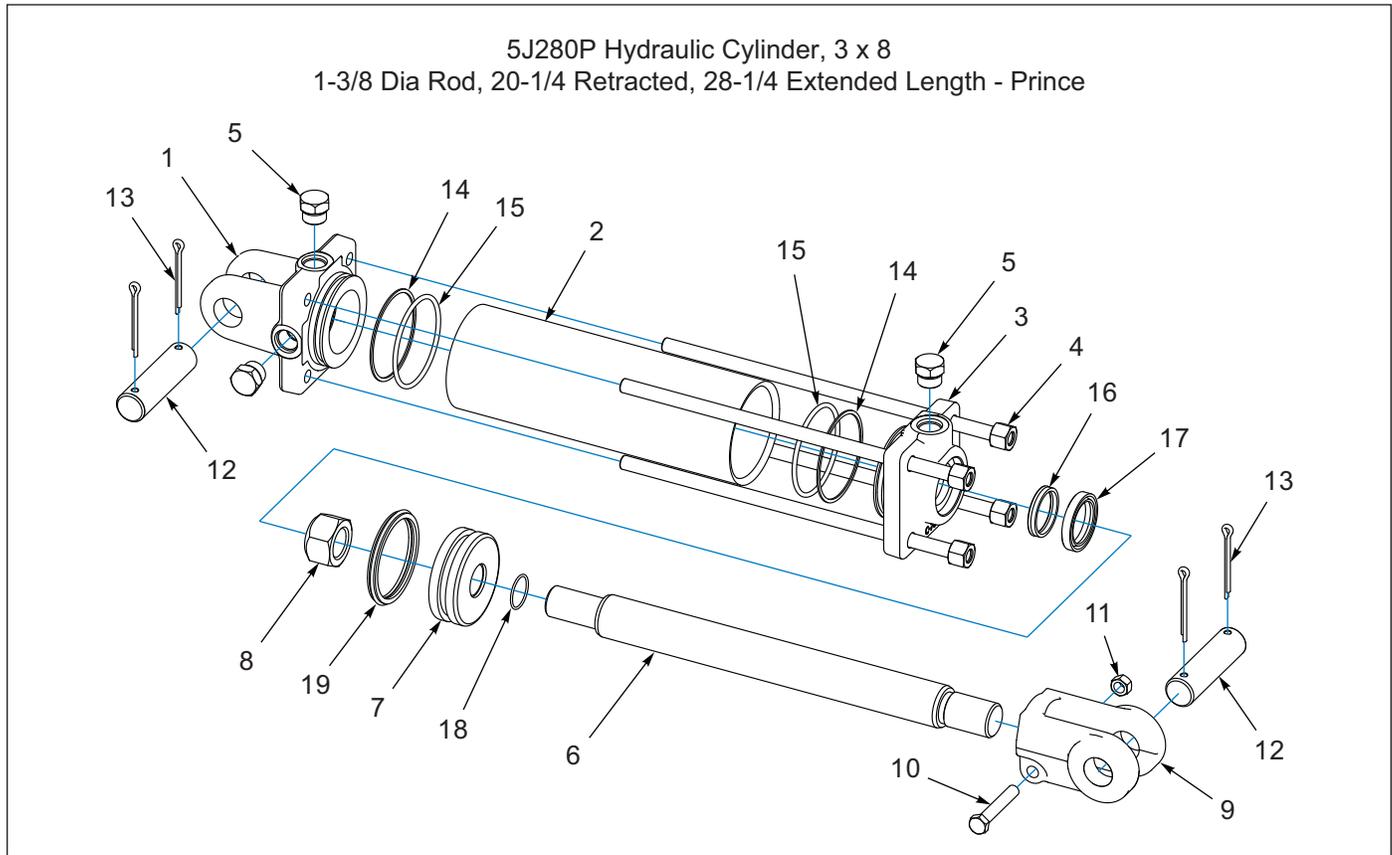


Figure 1-34: Hydraulic Cylinder, 3 x 8 - Prince

### Hydraulic Cylinder, 3 x 8 - Prince

ITEM	PART NUMBER	DESCRIPTION	QTY
	5J280	HYDRAULIC CYLINDER, 3 X 8	1
1	-----	BASE CLEVIS	1
2	-----	TUBE	1
3	-----	ROD CAP	1
4	-----	TIE ROD ASSEMBLY	1
5	1-007-010025	PLUG, 3/4-16 O-RING BOSS	1
6	-----	PISTON ROD	1
7	7K930	PISTON	1
8	-----	PISTON NUT	1
9	9D481	ROD CLEVIS (INCLUDES ITEMS 10 AND 11)	1
10	1-654-010051-10	SCREW, HX CP 3/8-16 X 2-1/4 GR5	1
11	1-512-010005-05	NUT. HEX SLFLKG GRB 3/8-16	2
12	5J650	PIN, 1.0 X 3.625 H2	2
13	110-4224	PIN,COTTER 3/16 X 2IN LG	1
14	-----	B/U WASHER	2
15	-----	O-RING	2
16	-----	U-CUP	1
17	-----	ROD WIPER	1
18	-----	PISTON O-RING	1
19	-----	PISTON SEAL	1
20	7K926	PMCK-BD-0565 SEAL KIT (INCLUDES ITEMS 14-19)	1

# Hydraulic Cylinder, 3 x 8 - Hydraulic Gear

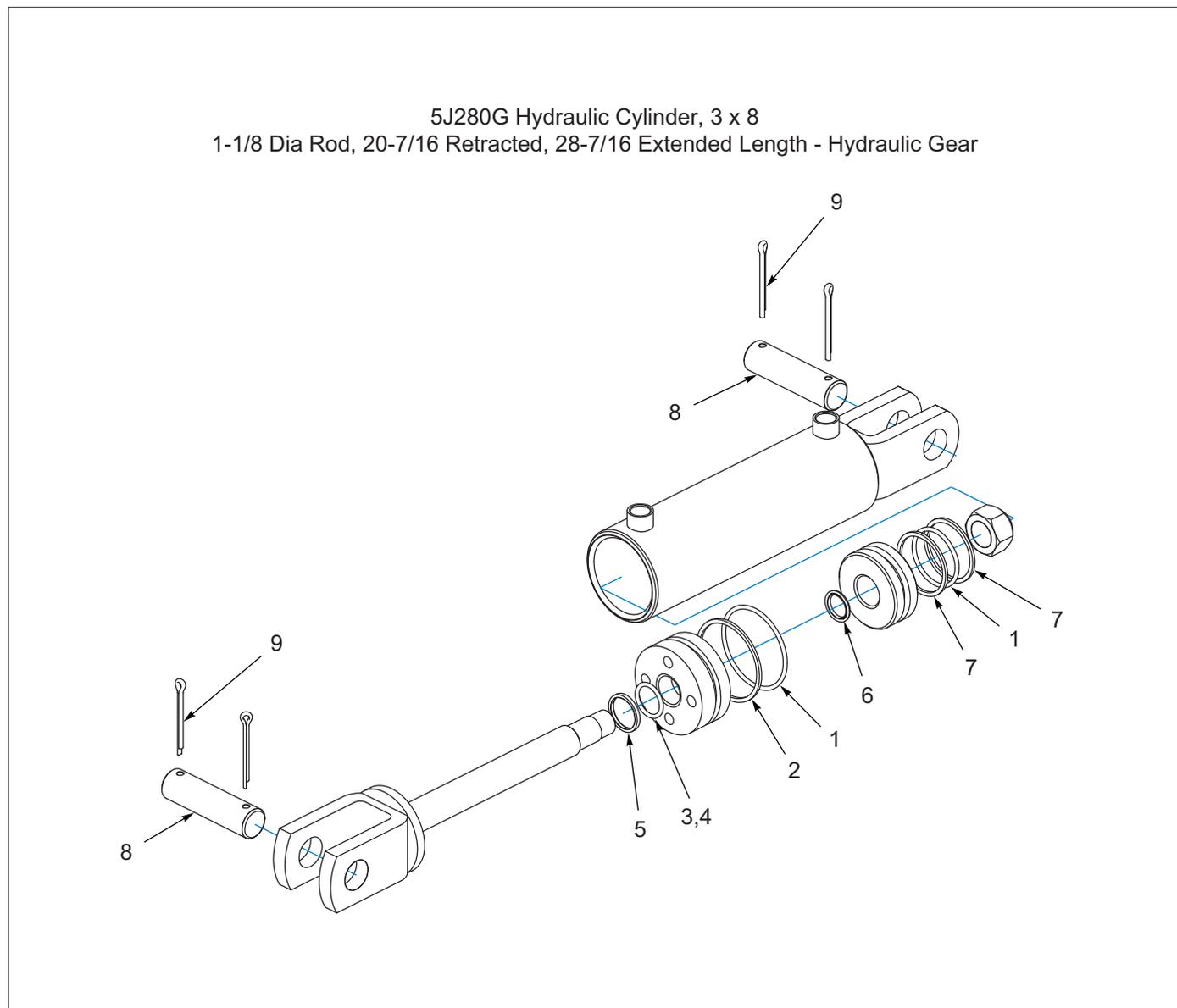


Figure 1-35: Hydraulic Cylinder, 3 x8 - Hydraulic Gear

## Hydraulic Cylinder, 3 x 8 - Hydraulic Gear

ITEM	PART NUMBER	DESCRIPTION	QTY
	5J280	HYDRAULIC CYLINDER, 3 X 8	1
1	-----	O RING	2
2	-----	BACK-UP RING	1
3	-----	O RING	1
4	-----	BACK UP RING	1
5	-----	WIPER	1
6	-----	SEAL	1
7	-----	SPIRAL TEFLON BACK-UP RING	2
8	5J650	CYLINDER PIN	2
9	110-4224	PIN,COTTER3/16 X 2IN LG	4
10	3J263	SEAL KIT (INCLUDES ITEMS 1-7)	1

ILLUSTRATED PARTS LIST

Hydraulic Cylinder, 3-1/2 x 16 - Hydraulic Gear

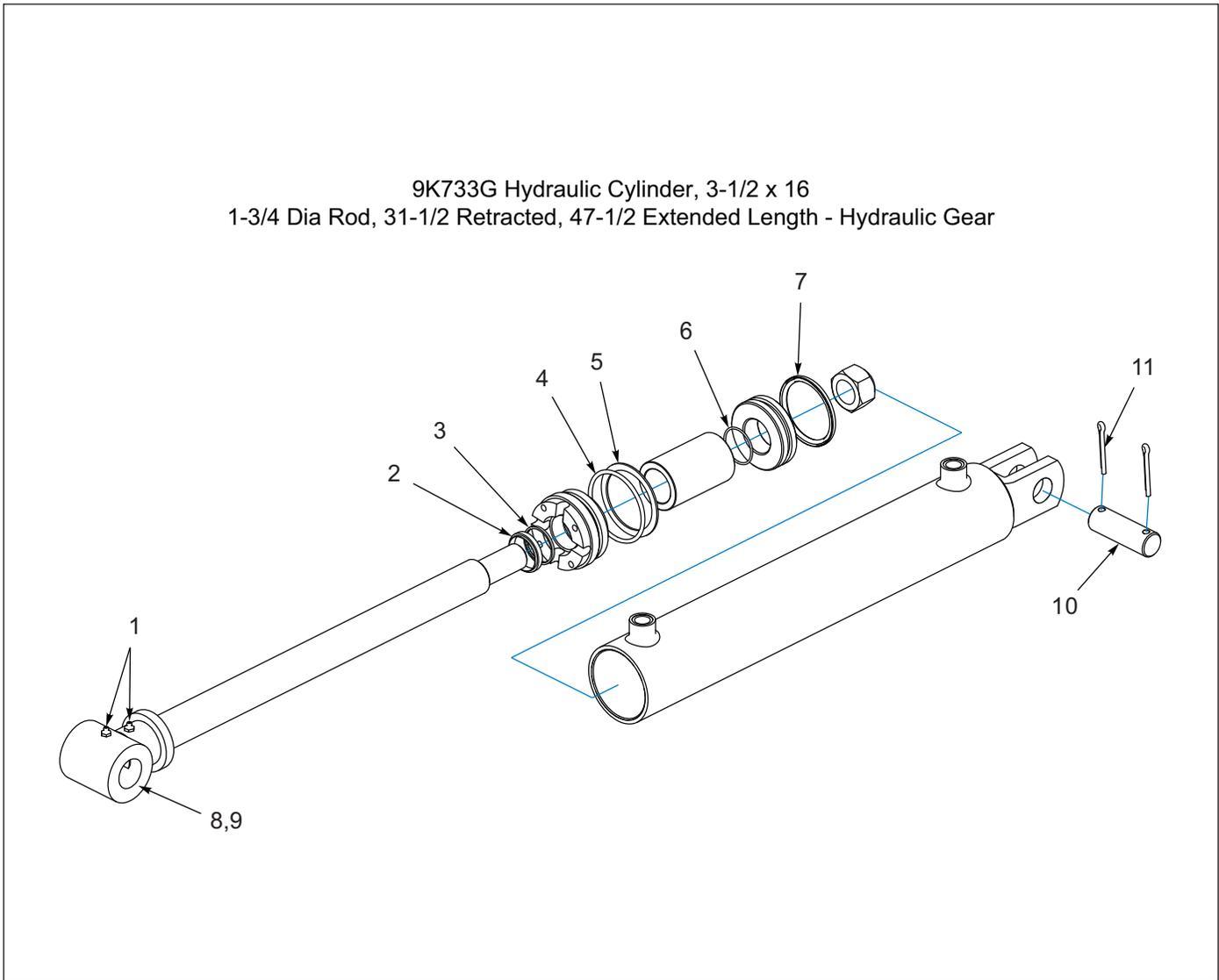


Figure 1-36: Hydraulic Cylinder, 3-1/2 x 16 - Hydraulic Gear

Hydraulic Cylinder, 3-1/2 x 16 - Hydraulic Gear

ITEM	PART NUMBER	DESCRIPTION	QTY
	9K733	HYD CYLINDER - 3-1/2 X 16	1
1	5000	ZERK FITTING 1/8NPT	2
2	-----	ROD WIPER	1
3	-----	U-CUP	1
4	-----	O-RING	1
5	-----	BACK-UP RING	1
6	-----	O-RING	1
7	-----	POLYSEAL	1
8	1P483	CROSS TUBE (INCLUDES ITEMS 1 AND 9)	1
9	1P196	SPRING BUSHING (NOT SHOWN)	2
10	3J498	1 1/4" DIA PIN	1
11	1-557-010362-63	PIN,COTTER 1/4X2 ZP	2
12	1P122	SEAL KIT (INCLUDES ITEMS 2-7)	1

# Hydraulic Cylinder, 3-1/2 x 16 - Lion - 671660

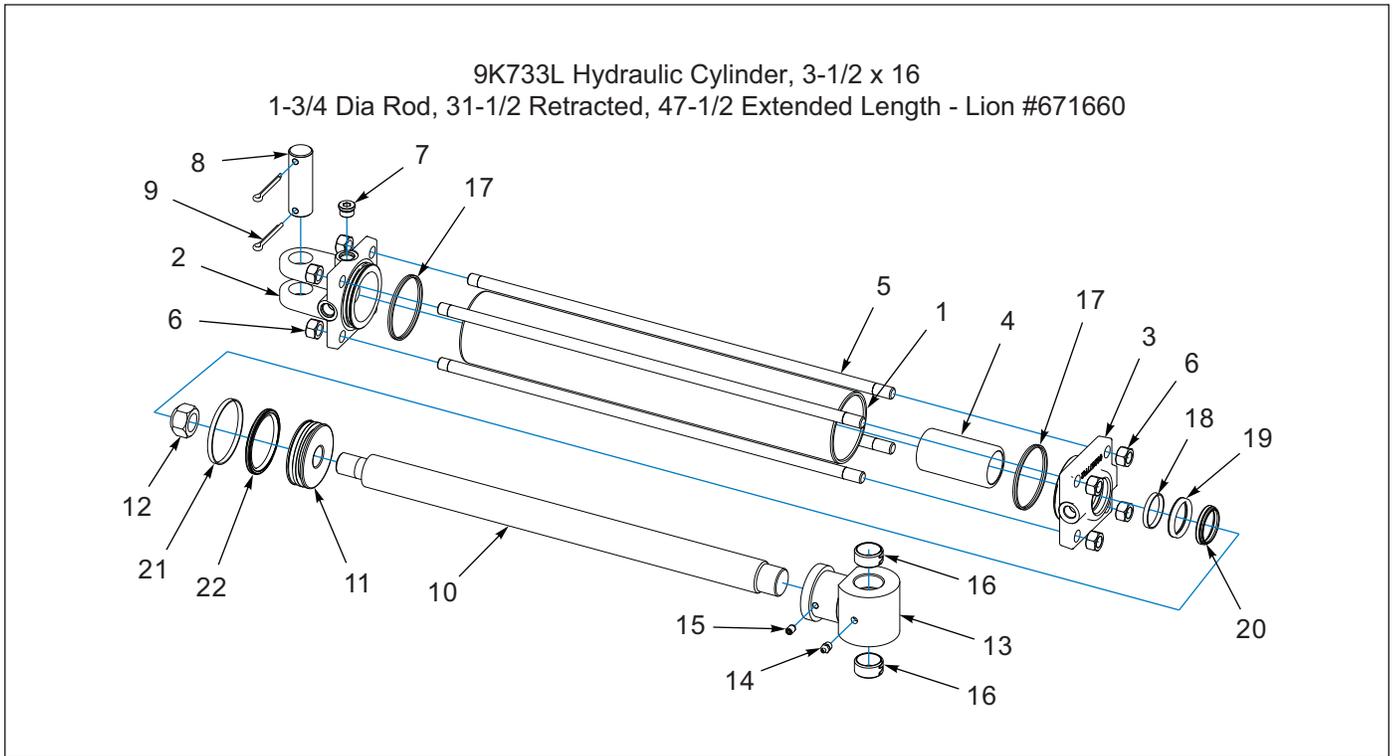


Figure 1-37: Hydraulic Cylinder, 3-1/2 x 16 - Lion - 671660

# Hydraulic Cylinder, 3-1/2 x 16 - Lion - 671660

ITEM	PART NUMBER	DESCRIPTION	QTY
	9K733	HYD CYLINDER - 3-1/2 X 16	1
1	-----	TUBE	1
2	-----	CLEVIS CAP	1
3	-----	ROD CAP	1
4	-----	STOP TUBE	1
5	-----	TIE ROD	4
6	-----	NUT,HEX 5/8-18,ZP	8
7	-----	PLUG,SOCKET HEAD 3/4-16	1
8	3J498	PIN,1.25 X 3.75	1
9	1-557-010362-63	PIN,COTTER 1/4 X 2 ZP	2
10	-----	ROD	1
11	-----	PISTON	1
12	1-512-010005-19	NUT,LOCK 1-8, GRB,ZP	1
13	1P483	CROSS TUBE,ROD END 1.5-12 THRD (INCLUDES ITEMS 14-16)	1
14	5000	ZERK FITTING 1/8NPT	1
15	1P443	SET SCREW,3/8-16 X 1/2 NYLON TIP	1
16	1P196	SPRING BUSHING,1.25X1.5X0.75	2
17	-----	SEAL DUAL 3.50	2
18	-----	WEAR RING 1.87-1.75-0.250	1
19	-----	SEAL ZURCON U-CUP RU9 1.75	1
20	-----	SEAL, WIPER 1.75	1
21	-----	WEAR RING 3.50-3.38-0.250	1
22	-----	SEAL ZURCON WYNSEAL 3.50"	1
23	1P744	SEAL KIT (INCLUDES ITEMS 17-22)	1

ILLUSTRATED PARTS LIST

Decals

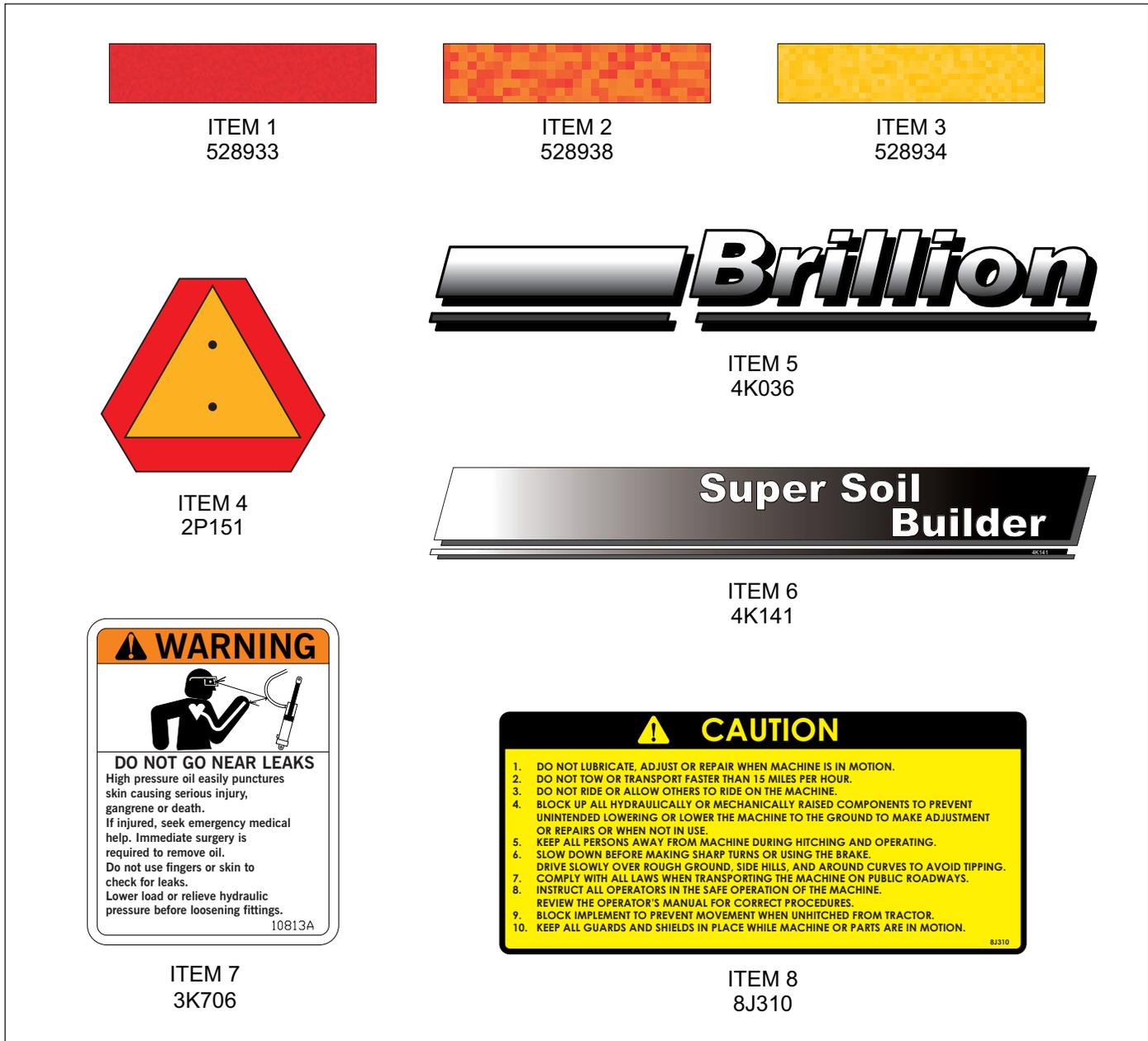


Figure 1-38: Decals

Decals

ITEM	PART NUMBER	DESCRIPTION	QTY	
			7 & 9 Shank	11 & 13 Shank
		<b>MODELS</b>		
1	528933	REFLECTOR - RED	4	6
2	528938	STRIPE, ORANGE	4	6
3	528934	REFLECTOR - YELLOW	6	6
4	2P151	SMV W/BRACKET	1	1
5	4K036	DECAL-BRILLION (2 3/4 X 20)	4	4
6	4K141	DECAL - "SUPER SOIL BUILDER"	2	2
7	3K706	DECAL-WARNING HYDRAULIC LEAKS	1	1
8	8J310	DECAL - CAUTION	1	1

# Decal Placement

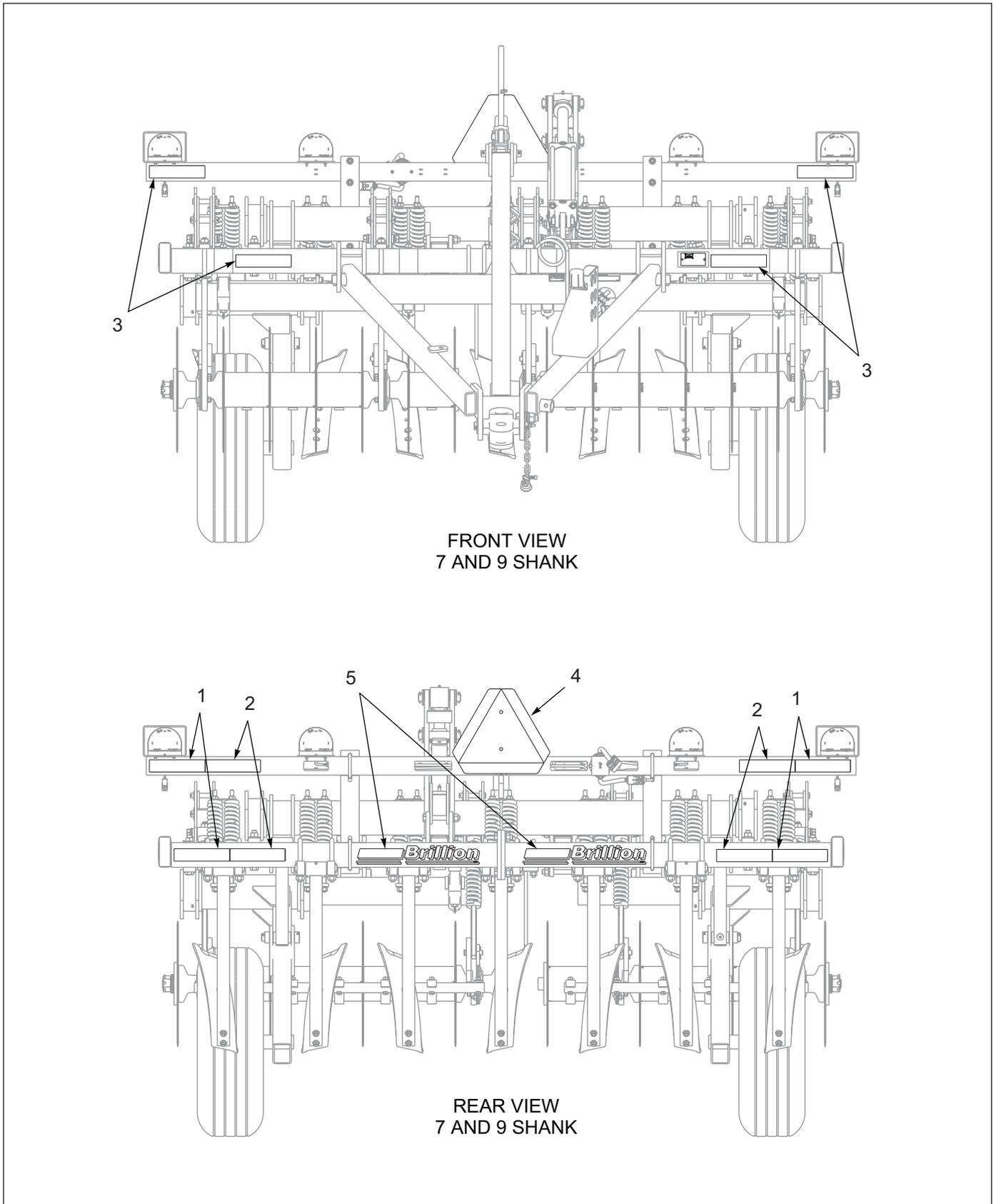


Figure 1-39: Decal Placement (1 of 4)

ILLUSTRATED PARTS LIST

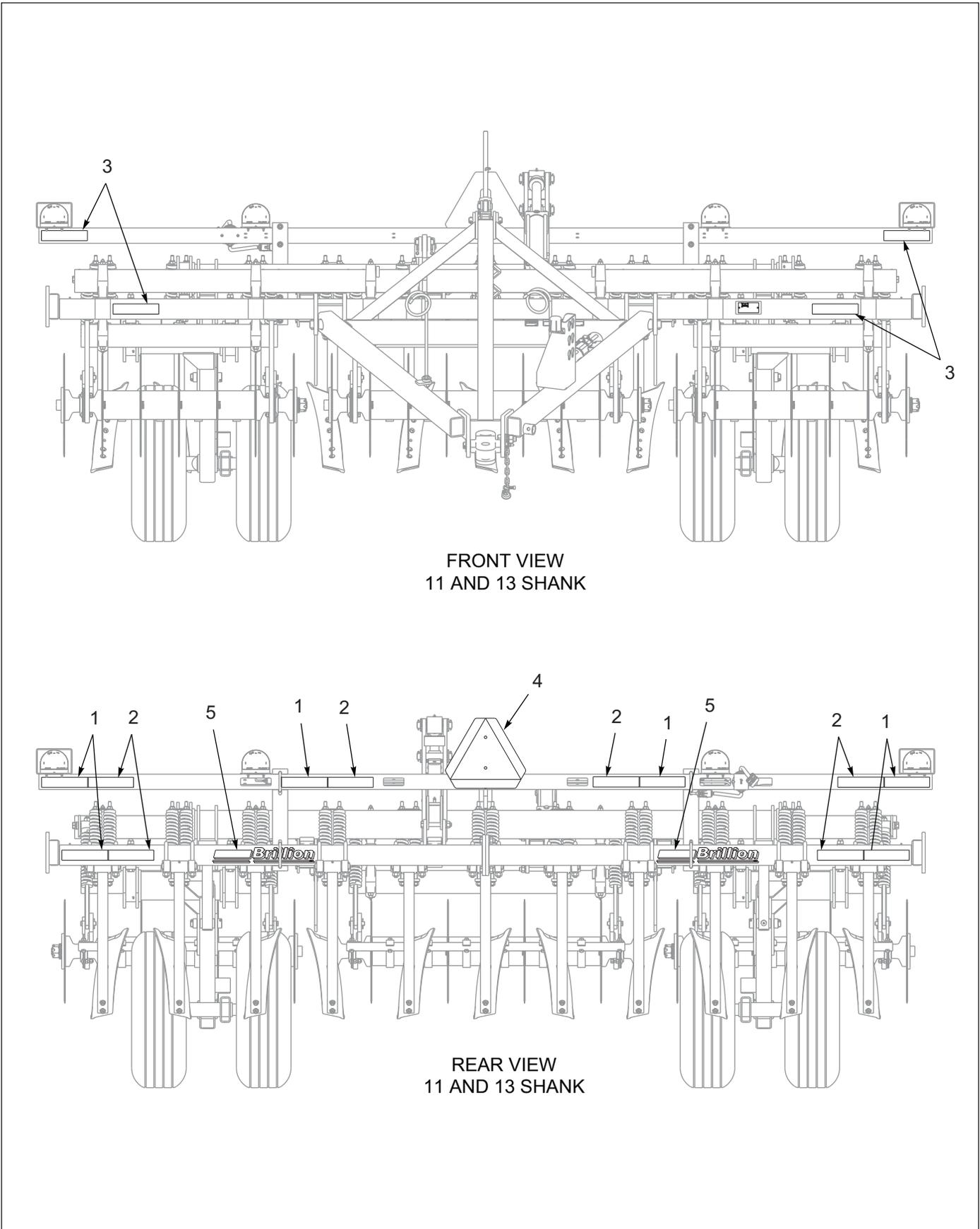


Figure 1-40: Decal Placement (2 of 4)

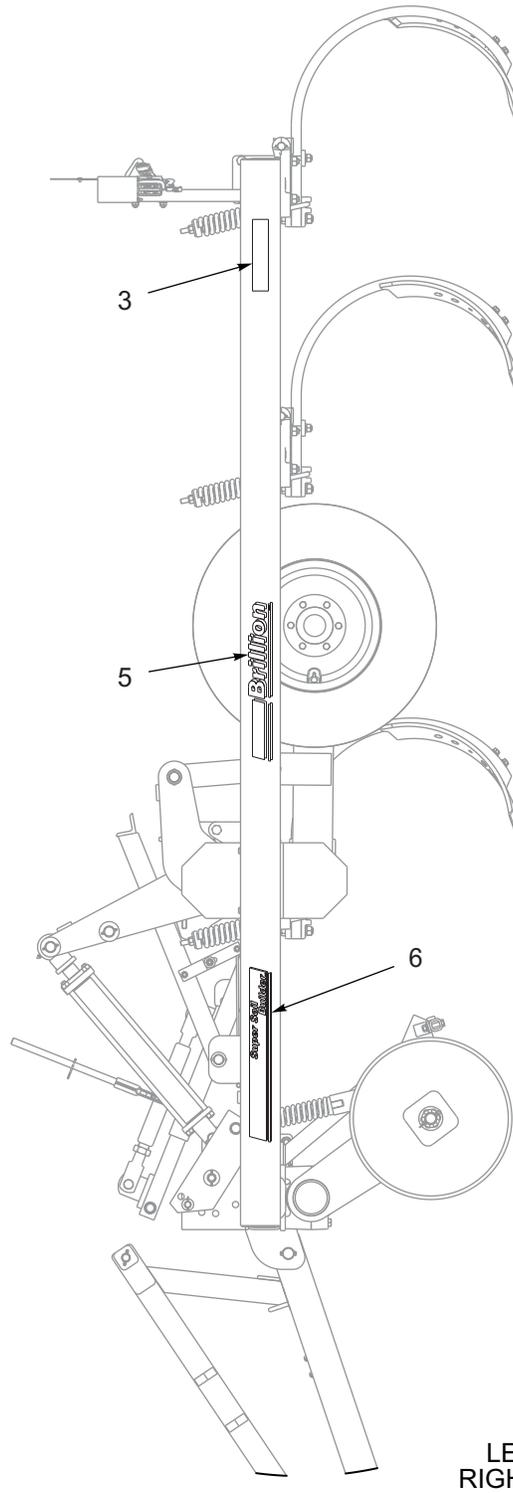


Figure 1-41: Decal Placement (3 of 4)

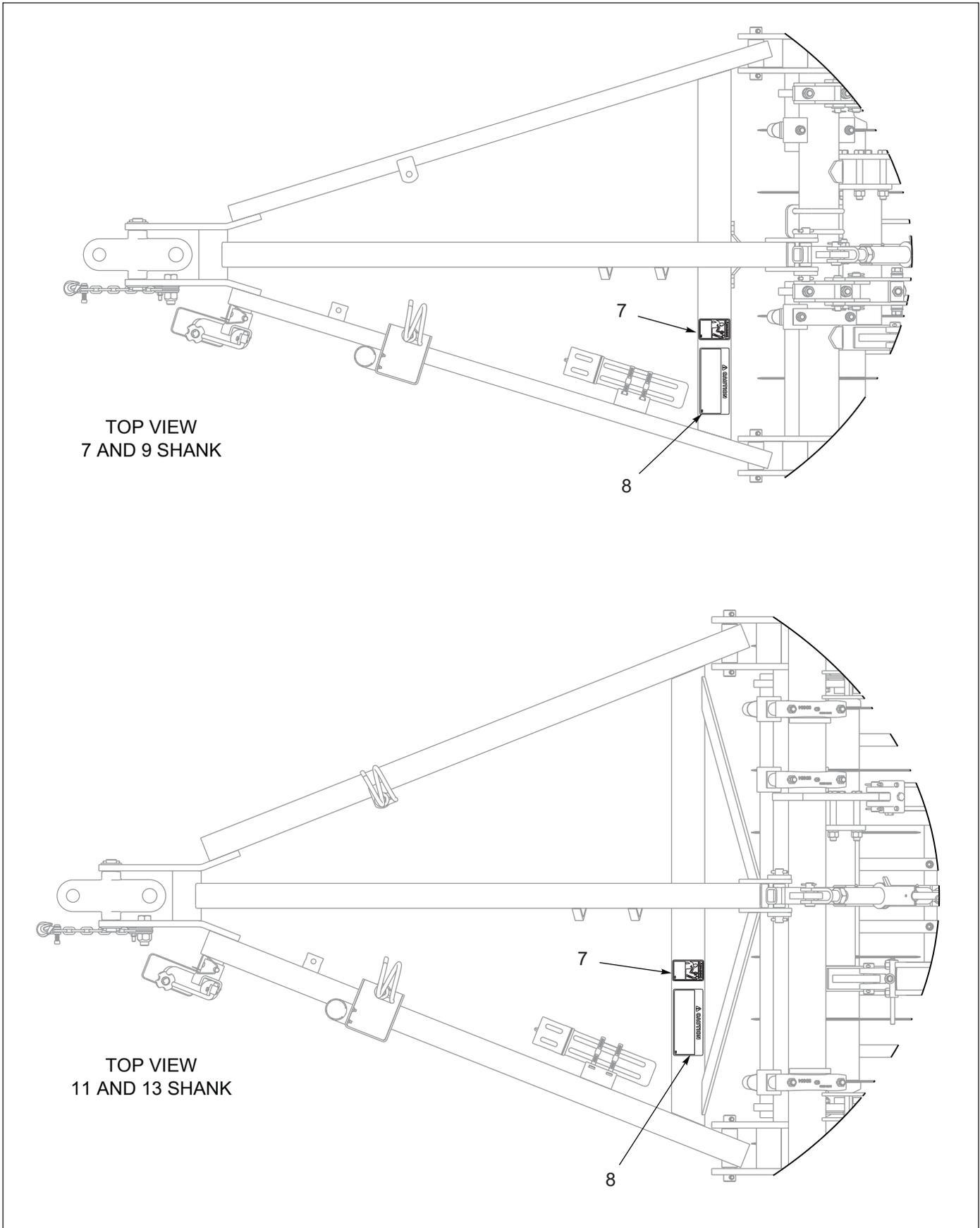


Figure 1-42: Decal Placement (4 of 4)

# Glossary

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For clarity this glossary of industry standard abbreviations and their definitions are provided.

## A

---

**ASM** ..... Assembly

## B

---

**BATT** ..... Battery  
**BHSC** ..... Button Head Socket Cap  
**BLK** ..... Black

## C

---

**CB** ..... Carriage Bolt  
**CONN** ..... Connector  
**CRG** ..... Carriage  
**CTSK** ..... Countersunk  
**CTWT** ..... Counterweight  
**CVR** ..... Cover  
**CYD** ..... Cylinder

## D

---

**DBL** ..... Double  
**DIA** ..... Diameter

## E

---

**ENCLSD** ..... Enclosed

## F

---

**FHCS** ..... Flanged Head Cap Screw  
**FHHCS** ..... Flanged Hex Head Cap Screw  
**FL OR FLG** ..... Flange  
**FLT** ..... Flat

## G

---

**GA** ..... Gauge

## H

---

**HHCS** ..... Hex Head Cap Screw  
**HCS** ..... High Carbon Steel  
**HD** ..... Head  
**HLCL** ..... Helical  
**HCSKT** ..... Hex Socket  
**HSFC** ..... Hex Socket Flat Countersunk  
**HYD** ..... Hydraulic

## I

---

**ID** ..... Inside Diameter

## L

---

**LH** ..... Lefthand  
**LKG OR LOCK** ..... Locking  
**LWR** ..... Lower

## M

---

**MANF** ..... Manifold  
**MNT** ..... Mount

## N

---

**NRW** ..... Narrow  
**----** ..... Not Serviced Separately

## O

---

**OD** ..... Outside Diameter  
**OHG** ..... Overhead Guard  
**ORFS OR ORS** ..... O-Ring Seal  
**ORP OR ORB** ..... O-Ring Boss

## P

---

**P-STEER** ..... Power Steering  
**PTFE** ..... Polytetrafluoroethylene (Teflon)

**GLOSSARY**

---

**R**

---

RH ..... Righthand  
RND ..... Round

**S**

---

SER ..... Series  
SHCS ..... Socket Head Cap Screw  
SHLD ..... Shield  
SKT ..... Socket  
SLFLKG ..... Selflocking  
SOC ..... Socket  
SPDT ..... Single Pole Double Throw  
SPR ..... Spring  
SQ ..... Square  
SRTD ..... Serrated  
SSCR ..... Setscrew  
SST ..... Stainless Steel  
STD ..... Standard

**U**

---

UPR ..... Upper

**W**

---

WHL ..... Wheel  
WLD OR WLDMT ..... Weldment

**Numerics**

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# Instructions for Ordering Parts

**\*\* Repair parts must be ordered through an authorized dealer \*\***

## DEALER INSTRUCTIONS FOR ORDERING PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

PHONE #: 800-423-4320 OR 785-562-5381

FAX #: 888-527-3909

ORDER ONLINE: [Dealer.landoll.com](http://Dealer.landoll.com)

### DATA PLATE

The Data Plate, which lists the model and serial number of the equipment, is located on the left side of the Super Soil Builder.

### SERIAL NUMBER NOMENCLATURE

The following information will help decode the Landoll serial number.

**SBD2200100 = xxmysssss**

<b>xx</b>	= model series (i.e. "SB" for all Soil Builders)
<b>m</b>	= month of manufacture (ex. "D" means April. The letter I is not used.)
<b>yy</b>	= last digits of the year manufactured (ex. "22" means 2022)
<b>sssss</b>	= Sequential number used to track warranty and service information.



Figure 1: Data Plate

## Manuals for Super Soil Builder

Manual Number	Manual Type
1K705	Operator's Manual
1K704	Parts Manual

# Document Control Revision Log:

Date	Form #	Improvement(s): Description and Comments
07/07/2008	rev0708	Latest Release
05/2014	rev0514	Added LED Warning Lights, Updated Drawings
03/2019	rev0319	Improved Drawings
10/2024	1K704-2410	ECN 50305 - Coulter Gang, Cylinder Depth Stop Segments
03/2026	1K704-2603	ECN 51831 - Drawbar Jack



Equipment from Landoll Company, LLC is built to exacting standards ensured by ISO 9001:2015 registration at all Landoll manufacturing facilities.

# **Super Soil Builder Coulter Chisel Extended Frame Models: SB, HSB 71-1 thru 131-1 Parts Manual**

## **Re-Order Part Number 1K704**

**LANDOLL COMPANY, LLC**

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Marysville, Kansas 66508

(785) 562-5381

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