



# PARTS MANUAL

**1998 to Present  
HD4SR and 12SR  
Auto Align Bale Skoop**

K34991-03A



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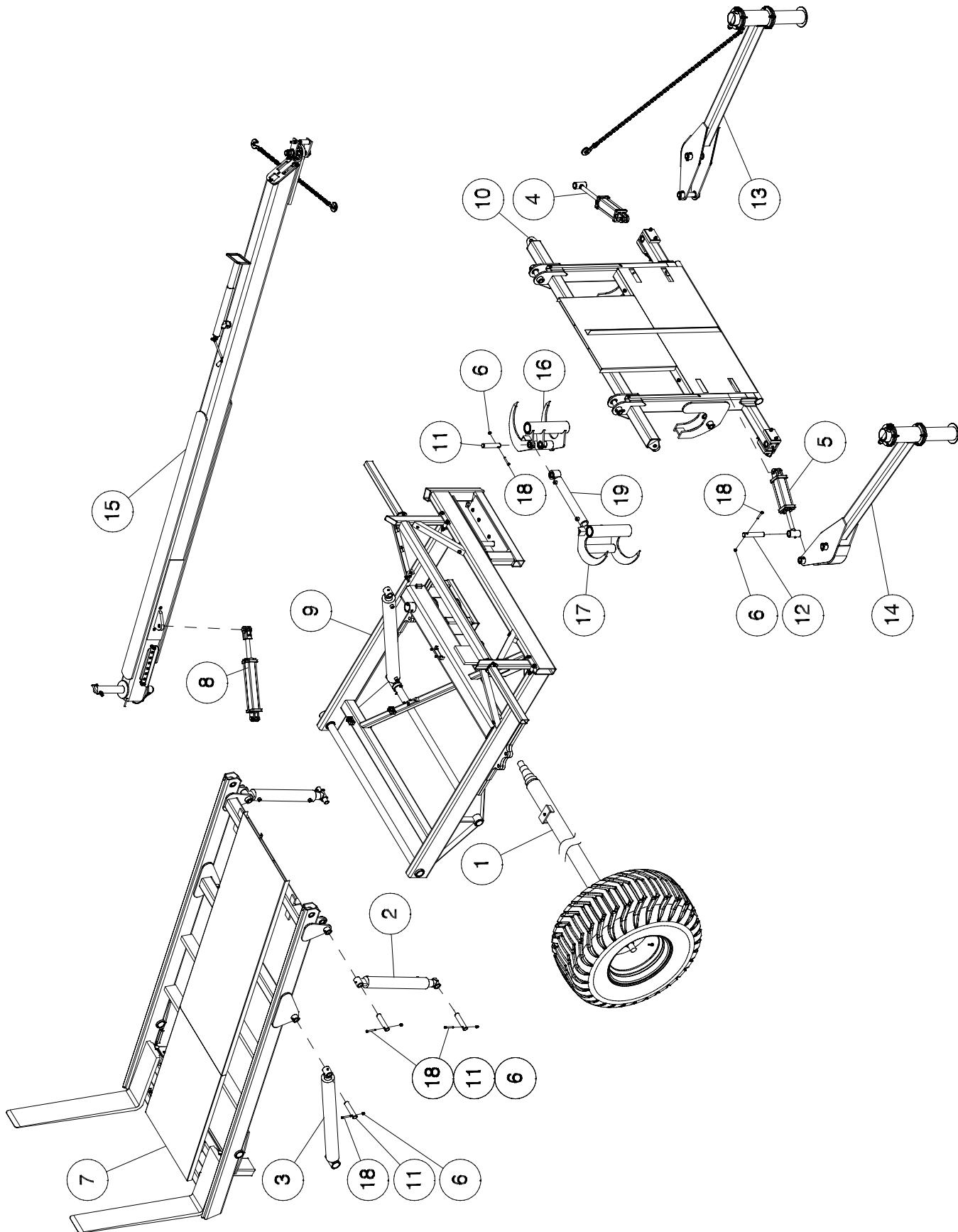
# **Section 1:**

## **Parts Breakdown**

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**HD4SR and 12SR  
Bale Skoop Final Assembly**

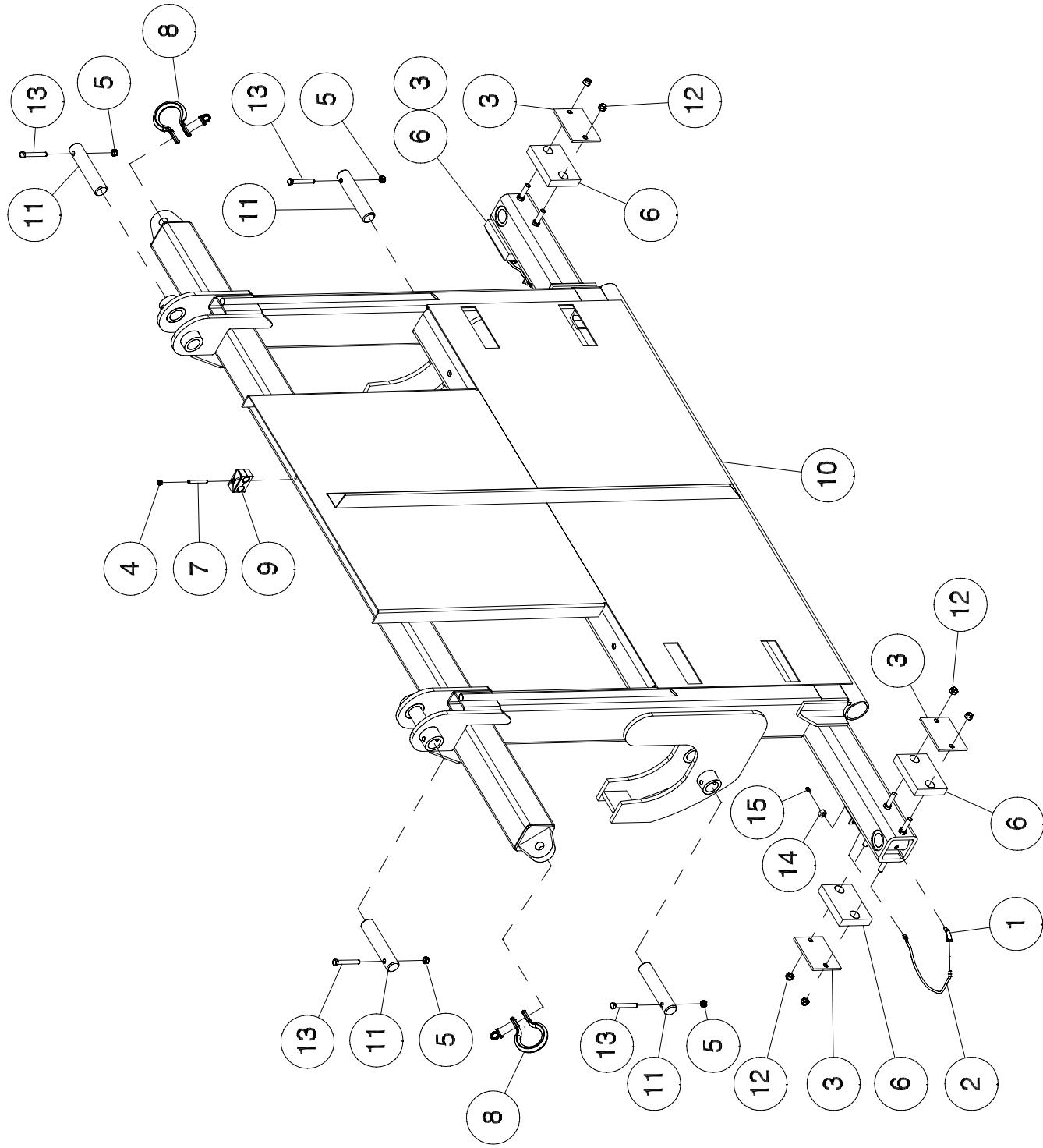


## Bale Skoop Final Assembly

Item	Part No.	Description	Qty
1	10410	Terra Axle Assembly .....	1
	10385	Truck Axle Assembly .....	1
2	10032	Loader Cylinder - 3 1/2 x 20 Stroke .....	2
3	10033	Bed Cylinder - 4 x 36 Stroke .....	2
4	10034	LH Alignment Cylinder - 3 1/4 x 8 Stroke .....	1
5	10035	RH Alignment Cylinder - 12SR - 3 1/2 x 8 Stroke .....	1
6	10302	Nylon Insert Locknut - 7/16 .....	14
7	12290	Bed.....	1
	*10048	SR Model Bed.....	1
8	12302	Hitch Cylinder - 3 x 14 Stroke .....	1
9	12474	Main Frame .....	1
	*10131	Main Frame .....	1
10	K44274	Loader - HD4SR (Not Shown) .....	1
	12494	Loader - 12SR .....	1
	*10214	Basic Loader Assembly .....	1
11	12519	Pin - Bed Cylinder - 1 1/2 Dia x 6 UL.....	10
	*10256	Pin - Bed Cylinder - 1 7/16 Dia x 7 UL .....	
12	12520	Pin - Alignment Arm - 1 1/2 Dia x 7 1/4 UL.....	4
13	12525	LH Medium Alignment Arm Assembly - 12SR .....	1
	*10405	LH Medium Alignment Arm Assembly - 12SR .....	1
	12527	LH Short Alignment Arm - HD4SR.....	1
	*10406	LH Short Alignment Arm - HD4SR.....	1
14	12526	RH Medium Alignment Arm Assembly - 12SR.....	1
	*10404	RH Medium Alignment Arm Assembly - 12SR.....	1
	12528	RH Short Alignment Arm - HD4SR .....	1
	*10011	RH Short Alignment Arm - HD4SR .....	1
15	K42480	Hitch Beam Assembly .....	1
	*10393	Hitch Assembly .....	1
16	12532	Grab Hook - Left - 12SR .....	1
17	12533	Grab Hook - Right - 12SR.....	1
18	D-5251	Hex Bolt - 7/16 x 3 Lg .....	14
19	K42468	Cylinder Assembly W/Bushings - 2 1/2 x 16 Stroke .....	1
	12166	Grab Hook Cylinder 03 - 12SR .....	1
	10036	Grab Hook Cylinder - 1998 to 2002 .....	1
	12039	Grommet - Inserts Into Light Bar (Not Shown).....	2
	10248	Slip Coat .....	1
	W-4647	Red Paint .....	1
	10359	Warning Light Assembly .....	1
	K34987	Operators Manual - HD4SR and 12SR .....	1
	K34990	Assembly Manual - HD4SR and 12SR .....	1

\* Prior to serial # SR12060881 for the 12SR & SR40600866 for the HD4SR

## HD4SR and 12SR Loader Assembly



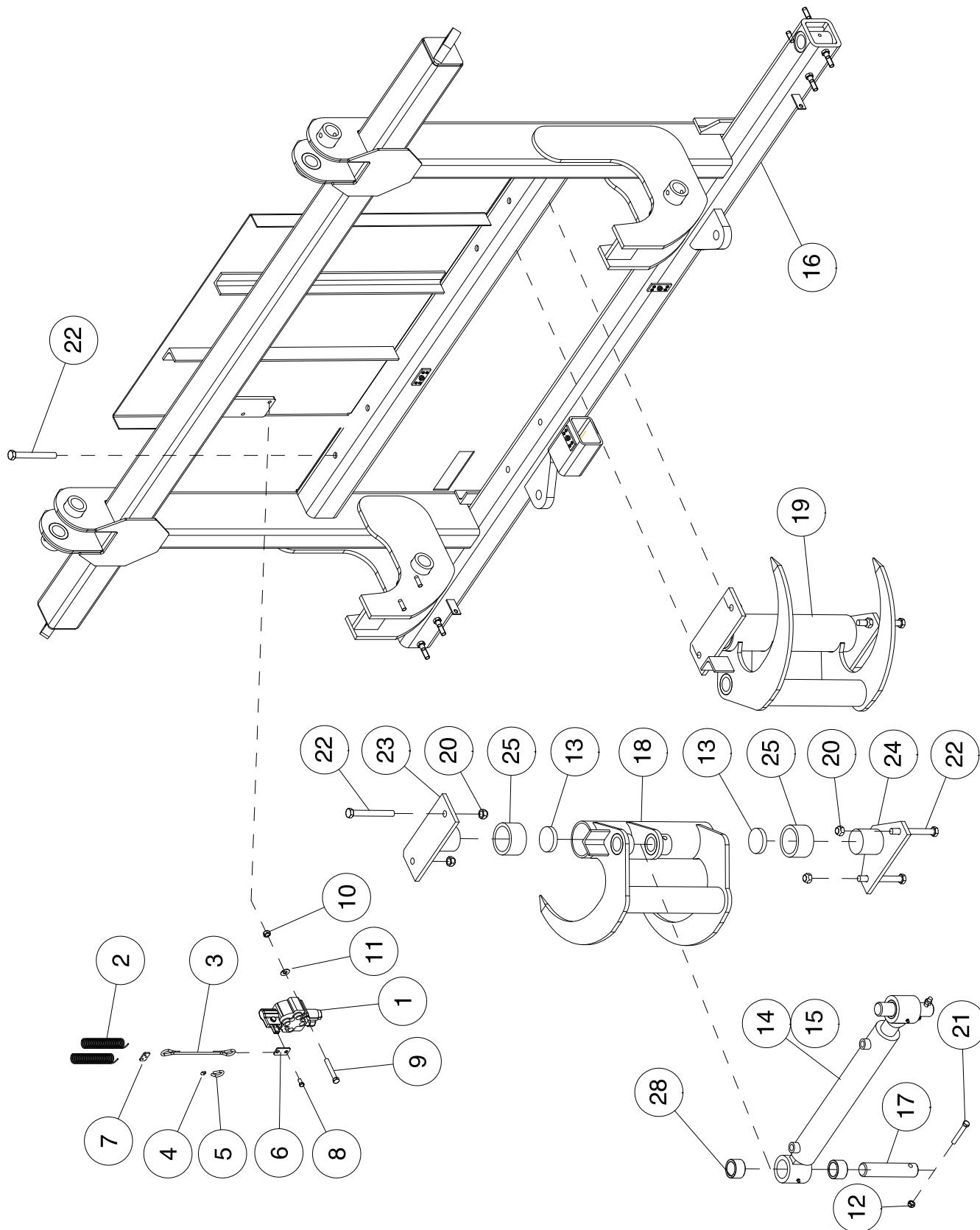
## Loader Assembly

Item	Part No.	Description	Qty
1	10173	Street Grease Elbow - NPTF 45 .....	2
2	10183	Remote Grease Hose - 1/8 x 12 Lg .....	2
3	10104	Plate - Alignment Slider .....	4
4	10231	Locknut - 5/16 Nylon Insert .....	3
5	10302	Locknut - 7/16 Nylon Insert .....	4
6	10351	Slider - Alignment Arm.....	4
7	10811	Set Screw - 5/16 x 2 1/2 Lg.....	3
8	10827	Round Pin Shackle - 3/4 .....	2
9	11740	Plastic Hose Clamps - 13/16.....	3
	10217	3/4" Plastic Hose Clamp - 1998 to 2001 .....	3
10	K44274	Loader - HD4SR (Not Shown) .....	1
	12494	Loader - 12SR .....	1
	*10193	Loader.....	1
11	12519	Pin - Bed Cylinder - 1 1/2 x 7.....	4
	*10256	Pin - 1 7/16 x 7 .....	4
12	F-3405	Locknut - 1/2 Nylon Insert .....	8
13	D-5251	Hex Bolt - 7/16 x 3 Lg .....	4
14	10227	3/8 - Grease Hose Jam Nut .....	2
15	S-752	Grease Fitting - 1/4 .....	2

\* Prior To Serial # SR12060881 For The 12SR & SR40600866 For The HD4SR

**HD4SR and 12SR**  
**12SR - Grab Hook Assembly - 2014 to Present**

For Serial Number - SR12143100 and Up

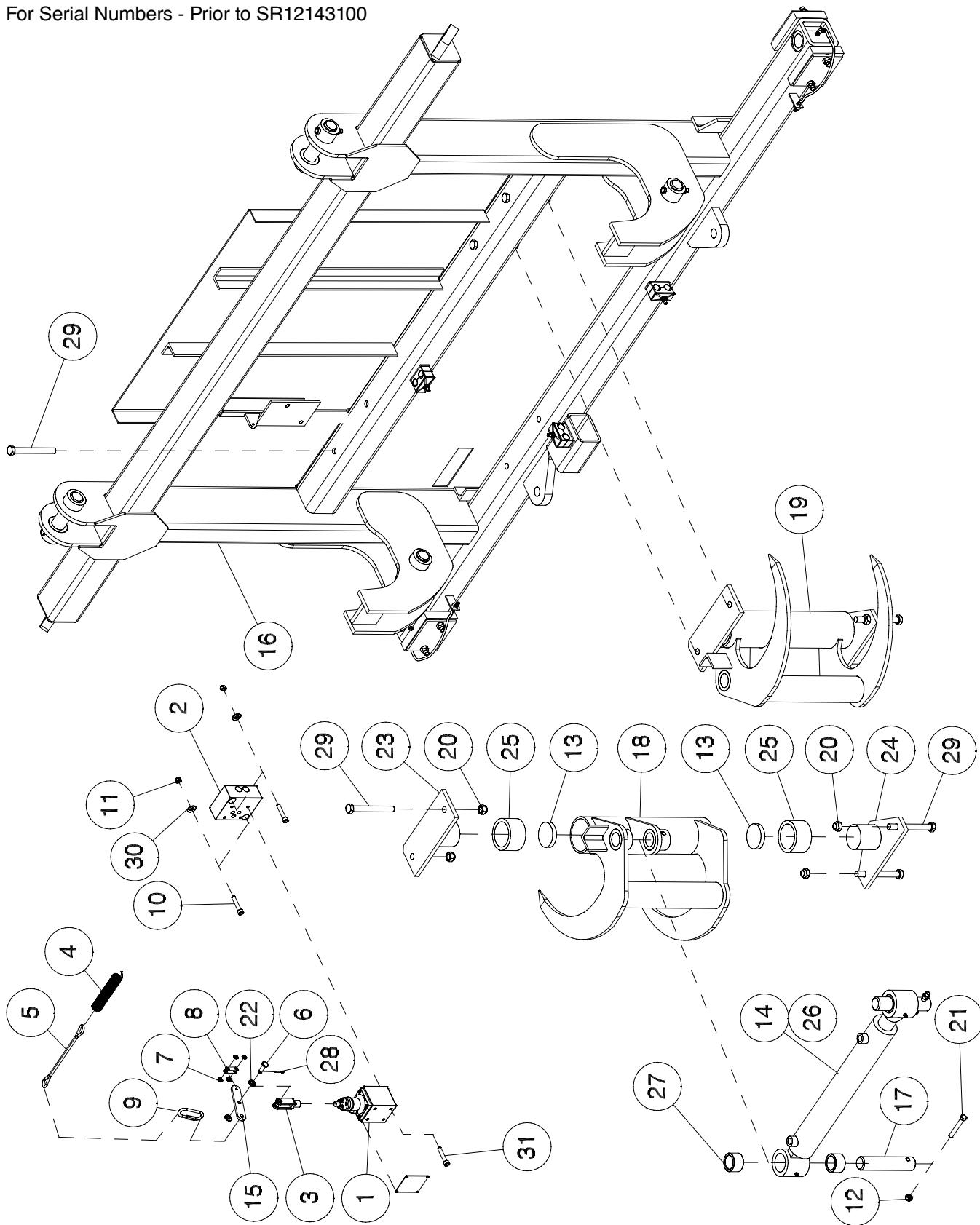


**12SR - Grab Hook Assembly - 2014 to Present**

<b>Item</b>	<b>Part No.</b>	<b>Description</b>	<b>Qty</b>
1	K53973	Directional Valve.....	1
2	10845	Spring - 3/4 x 5 3/4.....	2
3	K53993	Pull Cable.....	1
4	K42389	Oval Sleeve - 0.062 Diameter.....	4
5	K42390	Thimble .....	2
6	K53980	Plate - Valve Link.....	1
7	K53987	Plate - Spring Link.....	1
8	K53981	Hex Bolt - M8 x 25 mm Lg.....	1
9	S-1302	Hex Bolt - 5/16 x 2 1/2 Lg .....	2
10	W-513	Hex Nut - 5/16 .....	2
11	W-522	Lockwasher - 5/16.....	2
12	10302	Locknut - 7/16 Nylon Insert.....	2
13	10355	Grab Hook Thrust Bearing .....	4
14	12166	Hydraulic Cylinder - 2 1/2 x 16 Stroke.....	1
15	K42468	Cylinder Assembly W/Bushings - 2 1/2 x 16 Stroke.....	1
16	12494	Loader - 12SR .....	1
17	12519	Pin - Bed Cylinder - 1 1/2 x 7 .....	2
18	12532	LH Grab Hook .....	1
19	12533	RH Grab Hook .....	1
20	10230	Locknut - 5/8 Nylon Insert .....	8
21	D-5251	Hex Bolt - 7/16 x 3 Lg .....	2
22	10065	Hex Bolt - 5/8 x 5 1/2 Lg GR8.....	8
23	K42393	Upper Grab Hook Pivot.....	2
24	K42394	Lower Grab Hook Pivot.....	2
25	K42396	Grab Hook Bushing.....	4
26	K44008	Bushing - Cylinder Pivot.....	4

**HD4SR and 12SR**  
**12SR - Grab Hook Assembly - 2002 to 2013**

For Serial Numbers - Prior to SR12143100

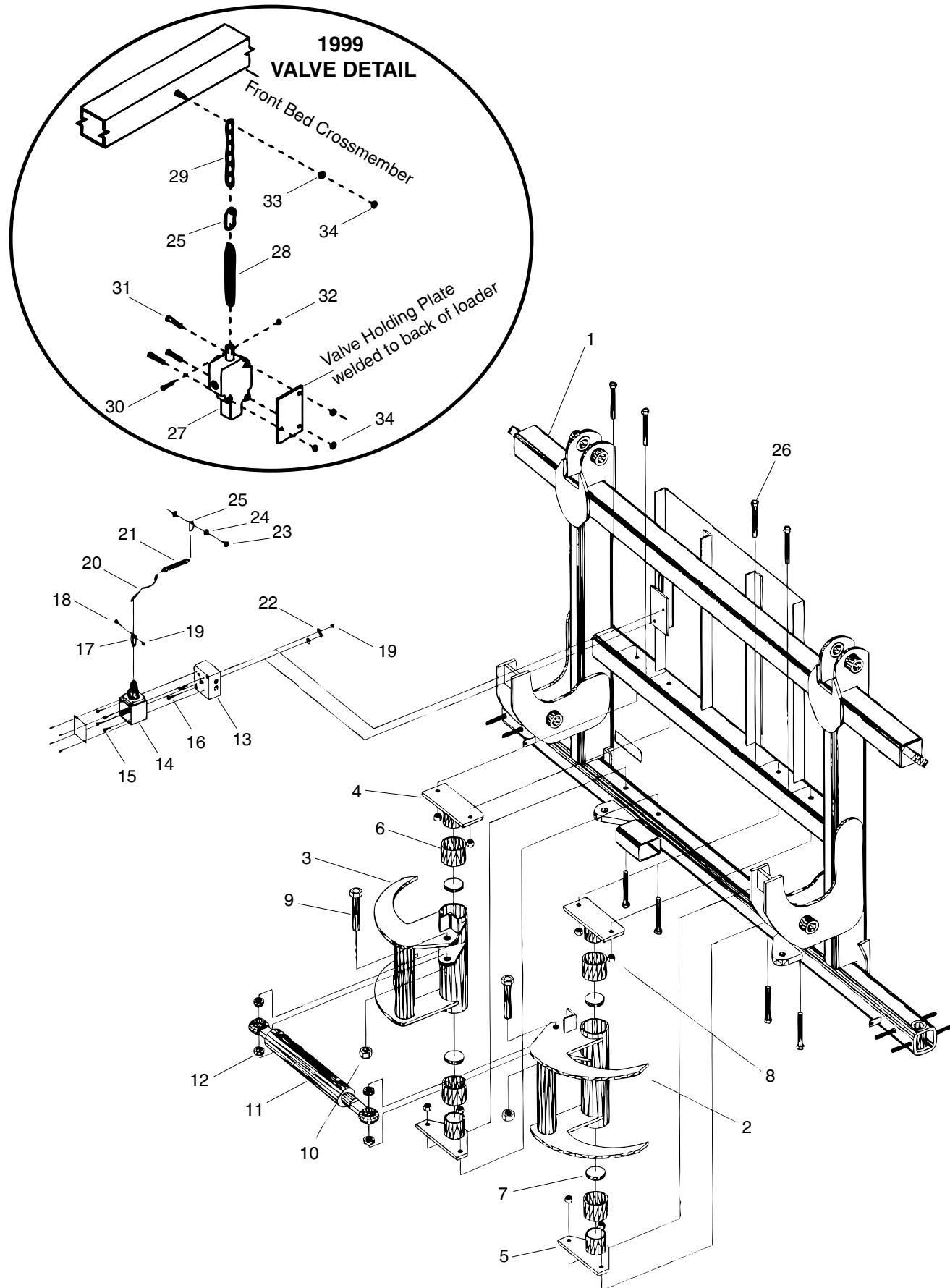


## 12SR - Grab Hook Assembly - 2002 to 2013

<b>Item</b>	<b>Part No.</b>	<b>Description</b>	<b>Qty</b>
1	10397	Dynex Actuator Valve.....	1
2	10842	Damen Sub Plate.....	1
3	10843	Yoke End 3/8 NF .....	1
4	10845	Spring - 3/4 x 5 3/4.....	1
5	12202	Pull Cable.....	1
6	F-3485	Pin - 3/4 x 1 1/4.....	1
7	12205	#6 Extra Thick Spacer Washer.....	4
8	12206	2040 Double Pitch Connecting Link.....	1
9	12224	Quick Link Wide Jaw - 1/4 .....	1
10	10069	Setscrew - 3/8 x 2 .....	2
11	10229	Locknut - 3/8 Nylon Insert.....	2
12	10302	Locknut - 7/16 Nylon Insert.....	2
13	10355	Grab Hook Thrust Bearing .....	4
14	12166	Hydraulic Cylinder - 2 1/2 x 16 Stroke.....	1
15	12174	Valve Pull Bar.....	1
16	12494	Loader - 12SR .....	1
	*10193	Loader.....	1
17	12519	Pin - Bed Cylinder - 1 1/2 x 7 .....	2
	*10256	Pin - 1 7/16 x 7 .....	2
18	12532	LH Grab Hook .....	1
	*12197	LH Grab Hook 03 .....	1
19	12533	RH Grab Hook .....	1
	*12196	RH Grab Hook 03 .....	1
20	10230	Locknut - 5/8 Nylon Insert .....	8
21	D-5251	Hex Bolt - 7/16 x 3 Lg .....	2
22	D-5489	Washer - 13/32 ID x 13/16 OD x 16 Ga.....	2
23	K42393	Upper Grab Hook Pivot.....	2
	*10209	Upper Grab Hook Pivot.....	2
24	K42394	Lower Grab Hook Pivot.....	2
	*10210	Lower Grab Hook Pivot.....	2
25	K42396	Grab Hook Bushing.....	4
	*10357	Grab Hook Bushing.....	4
26	K42468	Cylinder Assembly W/Bushings - 2 1/2 x 16 Stroke .....	1
27	K44008	Bushing - Cylinder Pivot.....	4
	*10936	Loader Pivot Bushing - 1.453 ID x 2.035 OD x 1 1/4 Lg .....	4
28	W-907	Cotter Pin - 5/32 x 3/4 Lg .....	1
29	10065	Hex Bolt - 5/8 x 5 1/2 Lg GR8 .....	8
30	W-538	Washer - 7/16 ID x 1 OD x 14 Ga .....	2
31	10722	Bolt - 1/4-20 x 3/4 Lg.....	4

\*Prior To Serial # SR12060881 For The 12SR

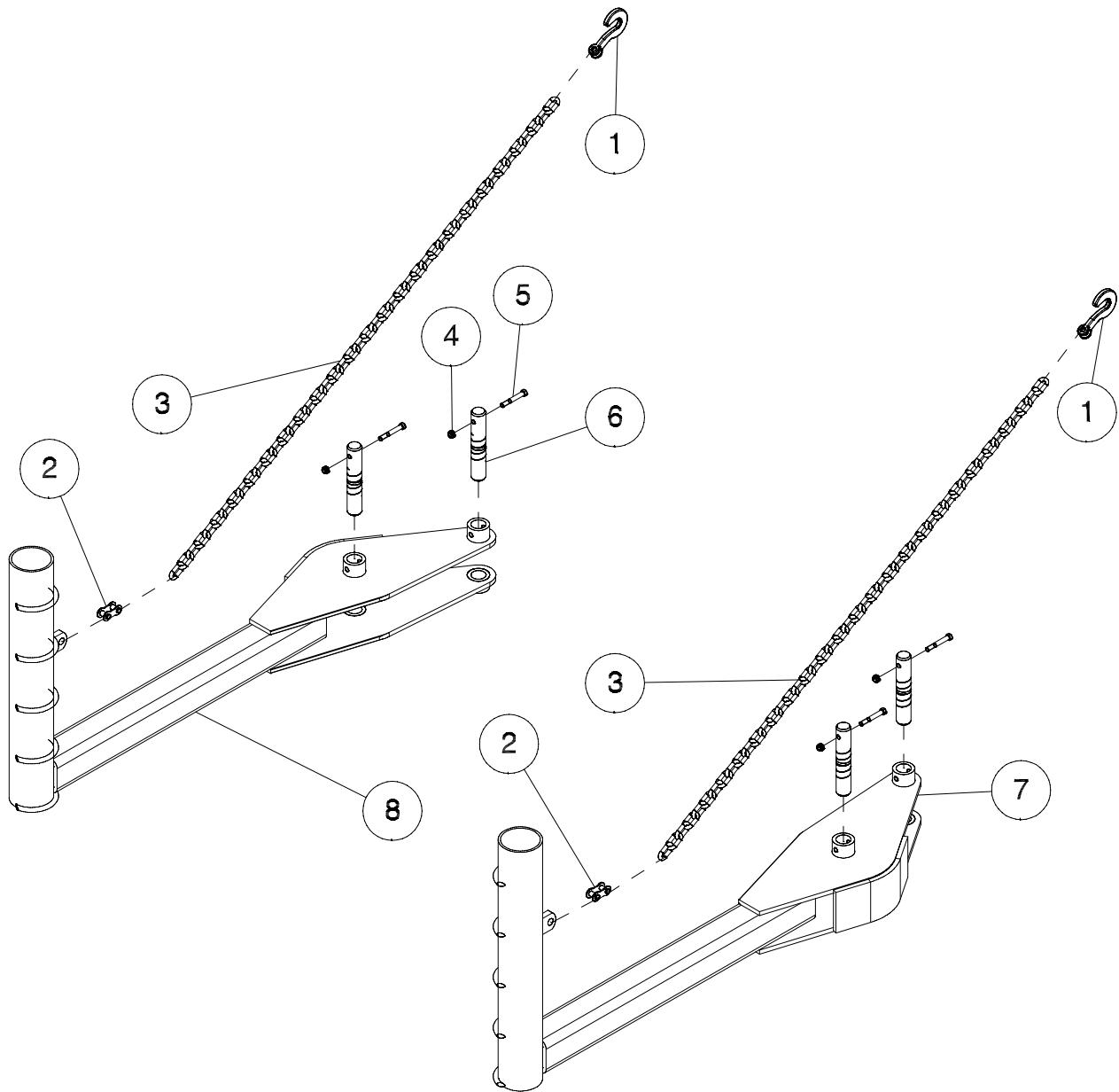
**HD4SR and 12SR**  
**Grab Hook Assembly - 1998 to 2001**



## Grab Hook Assembly - 1998 to 2001

Item	Part No.	Description	Qty
1	10193	Loader Painted.....	1
2	10197	RH Grab Hook - 2001 .....	1
	10208	RH Grab Hook - 1998 to 2000 .....	1
3	10687	LH Grab Hook - 2001.....	1
	10182	LH Grab Hook - 1998 to 2000.....	1
4	10209	Upper Grab Hook Pivot Painted.....	2
5	10210	Lower Grab Hook Pivot Painted.....	2
	10097	Lower Grab Hook Pivot Painted - 1998 to 2000.....	2
6	10357	Grab Hook Bushing.....	4
7	10355	Grab Hook Thrust Bearing .....	4
8	10230	5/8" Nylock Nut.....	8
9	10057	1" x 6" Gr 8 Hex Bolt.....	2
10	10228	1" Nylock Nut.....	2
11	10036	Grab Hook Cylinder .....	1
12	10096	Cylinder Bolt Spacer .....	4
13	10842	Damen Sub Plate.....	1
14	10397	Dynex Valve (Grab Hook Valve) .....	1
15	10722	1/4" - 20 x 3/4" Gr 8 SHCS Plain.....	4
16	10069	3/8" NC x 2" SHCS Gr 8 .....	2
17	10843	Yoke End 3/8" NF .....	1
18	W-477	Hex Head Bolt - 3/8 x 1 1/2 G5 .....	1
19	10229	3/8" Nylock Nut.....	3
20	10844	5" Cable Loop Ends .....	1
21	10845	3/4" x 5 3/4" Spring.....	1
22	W-538	Flat Washer - 3/8.....	2
23	10229	3/8" Nylock Nut - 2000 only .....	1
24	10236	3/8" USS Flat Washer Plated - 2000 only .....	2
25	10103	1/4" Quick Loop - 1998 to 2000 only .....	1
26	10065	5/8" x 5 1/2" Gr 8 Hex Bolt - Plated .....	8
27	10124	Grab Hook Valve - 1998 to 1999 .....	1
28	10272	1" x 7" Spring - 1998 to 1999 .....	1
29	10758	3/16" Chain 6" Lg - 1998 to 1999 .....	1
30	10073	1/4" x 1 1/2" Gr 8 Hex Bolt Plated - 1998 to 1999 .....	1
31	10091	3/8" x 2 1/2" Gr 8 Hex Bolt Plated - 1998 to 1999 .....	3
32	10233	1/4" Nylock Nut.....	1
33	W-538	Flat Washer - 7/16 ID x 1 OD x 14 Ga- 1998 to 1999 .....	2
34	10229	3/8" Nylock Nut - 1998 to 1999 .....	4

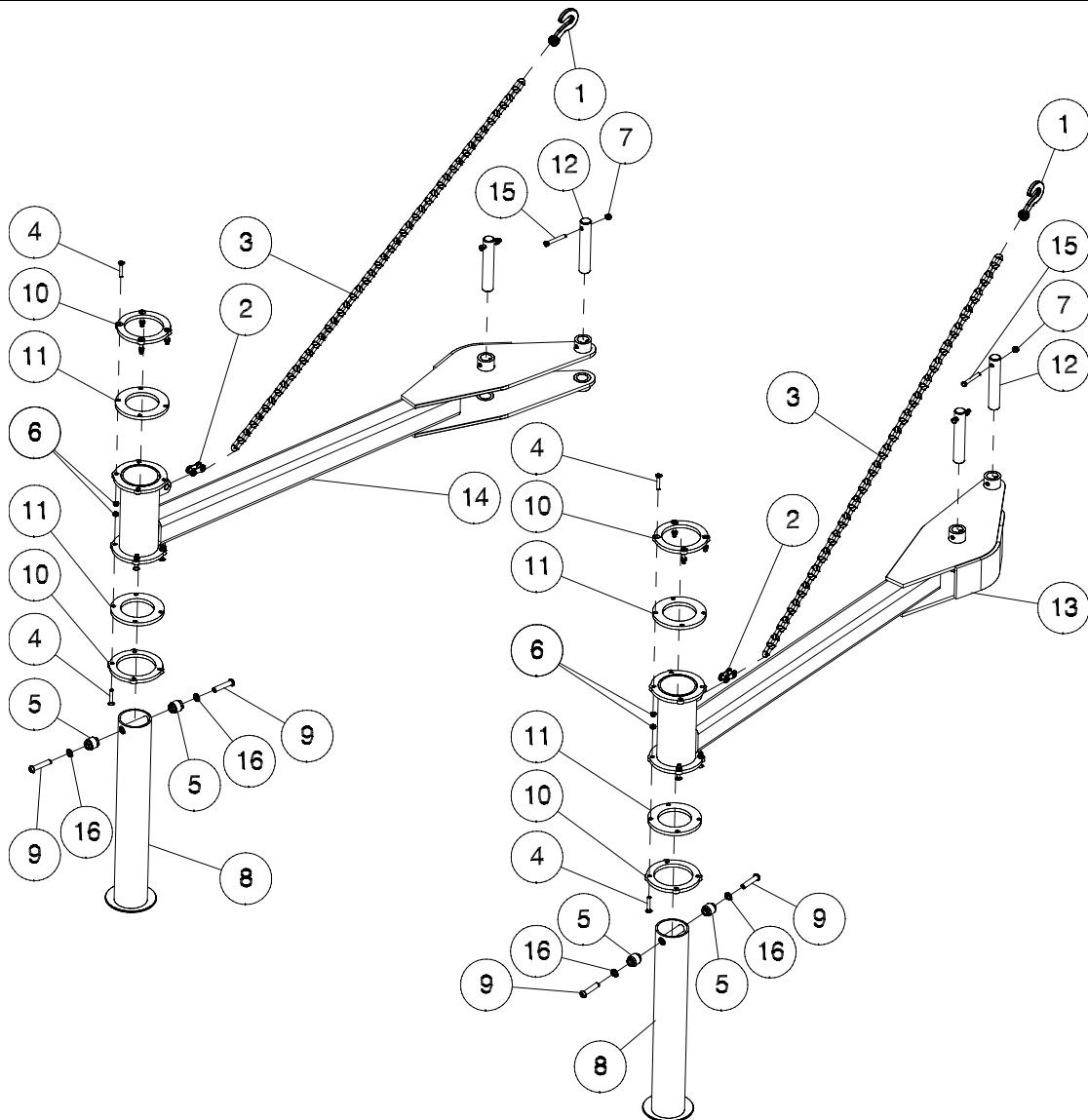
**HD4SR**  
**HD4SR - Short Alignment Arm Assembly**



Item	Part No.	Description	Qty
1	10662	3/8 Chain Locking Grab Hook.....	2
2	10677	7/16 - 1/2 Twin Clevis .....	2
3	10750	Chain - 75 Lg - Grade 70 (Includes Item 1) .....	2
4	10302	Locknut - 7/16 Nylon Insert .....	4
5	D-5251	Hex Bolt - 7/16 x 3 .....	4
6	12520	Pin - 1 1/2 x 8 1/4.....	4
*10257		Pin - 1 7/16 x 8 1/4.....	4
7	12527	LH Short Alignment Arm.....	1
*10406		LH Short Alignment Arm.....	1
8	12528	RH Short Alignment Arm .....	1
	*10011	RH Short Alignment Arm .....	1

\* Prior To Serial # SR40600866 For The HD4SR

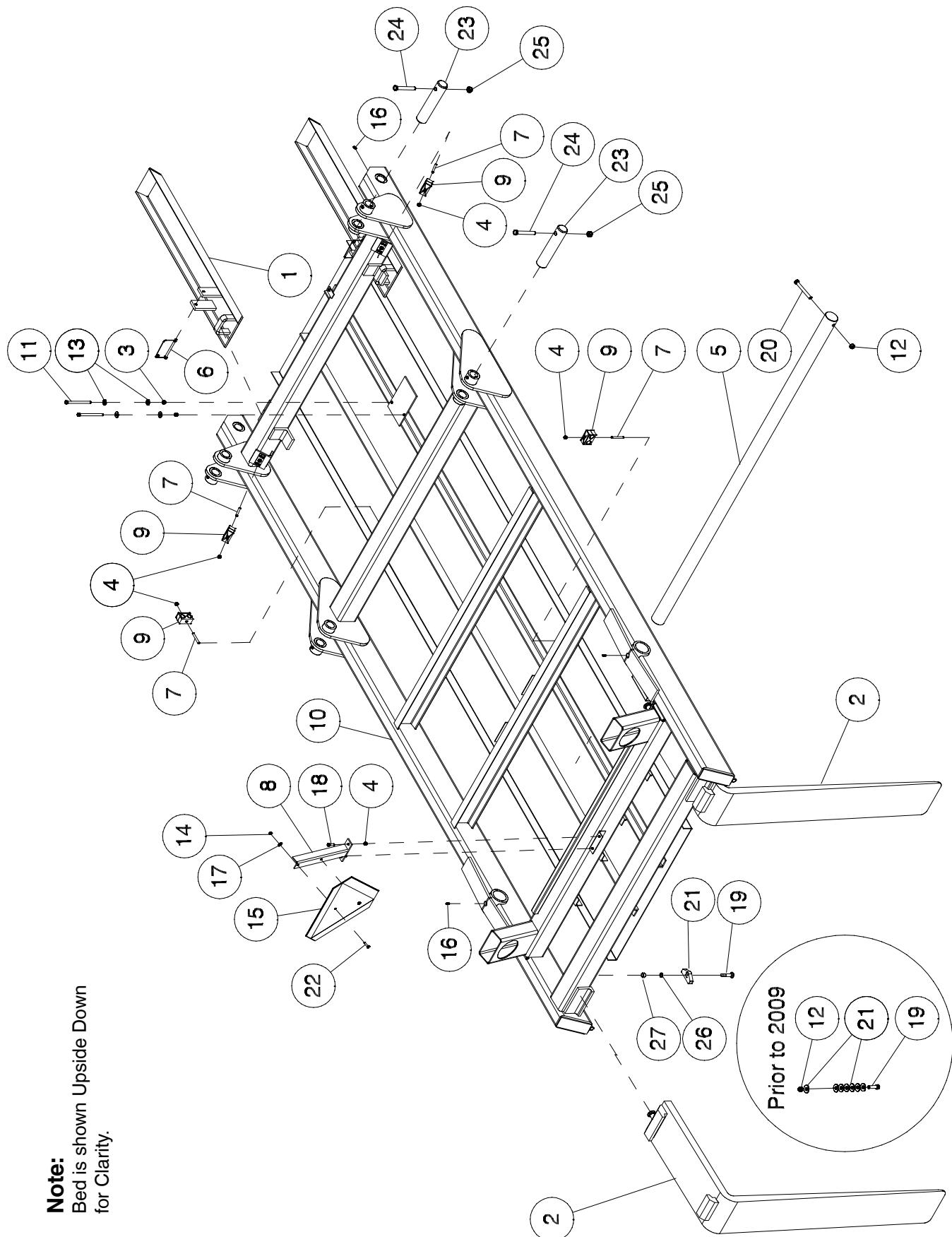
**HD12SR**  
**12SR - Medium Alignment Arm Assembly**



Item	Part No.	Description	Qty
1	10662	Chain Locking Grab Hook - 3/8 .....	2
2	10677	Twin Clevis - 7/16 x 1/2.....	2
3	10750	Chain - 75 Lg - Grade 70 (Includes Item 1) .....	2
4	10074	Cap Screw - 3/8 x 2 1/4.....	16
5	10076	Rubber Roller Bushing - 5/8 x 2 .....	4
6	10229	Nylon Insert Locknut - 3/8 .....	16
7	10302	Nylon Insert Locknut - 7/16 .....	4
8	10400	Foot Slider .....	2
9	10835	BH Cap Screw - 5/8 x 3.....	4
10	10841	Bearing Plate 99.....	4
11	10846	Foot Slider Bearing 99.....	4
12	12520	Pin - 1 1/2 x 8 1/4 .....	4
*10257		Pin - 1 7/16 x 8 1/4 .....	4
13	12525	LH Medium Alignment Arm .....	1
*10220		LH Medium Alignment Arm .....	1
14	12526	RH Medium Alignment Arm.....	1
*10399		RH Medium Alignment Arm.....	1
15	D-5251	Hex Bolt - 7/16 x 3 Lg.....	4
16	W-526	Lockwasher - 5/8 .....	4

\* Prior To Serial # SR12060881 For The 12SR

## HD4SR and 12SR Bed Assembly

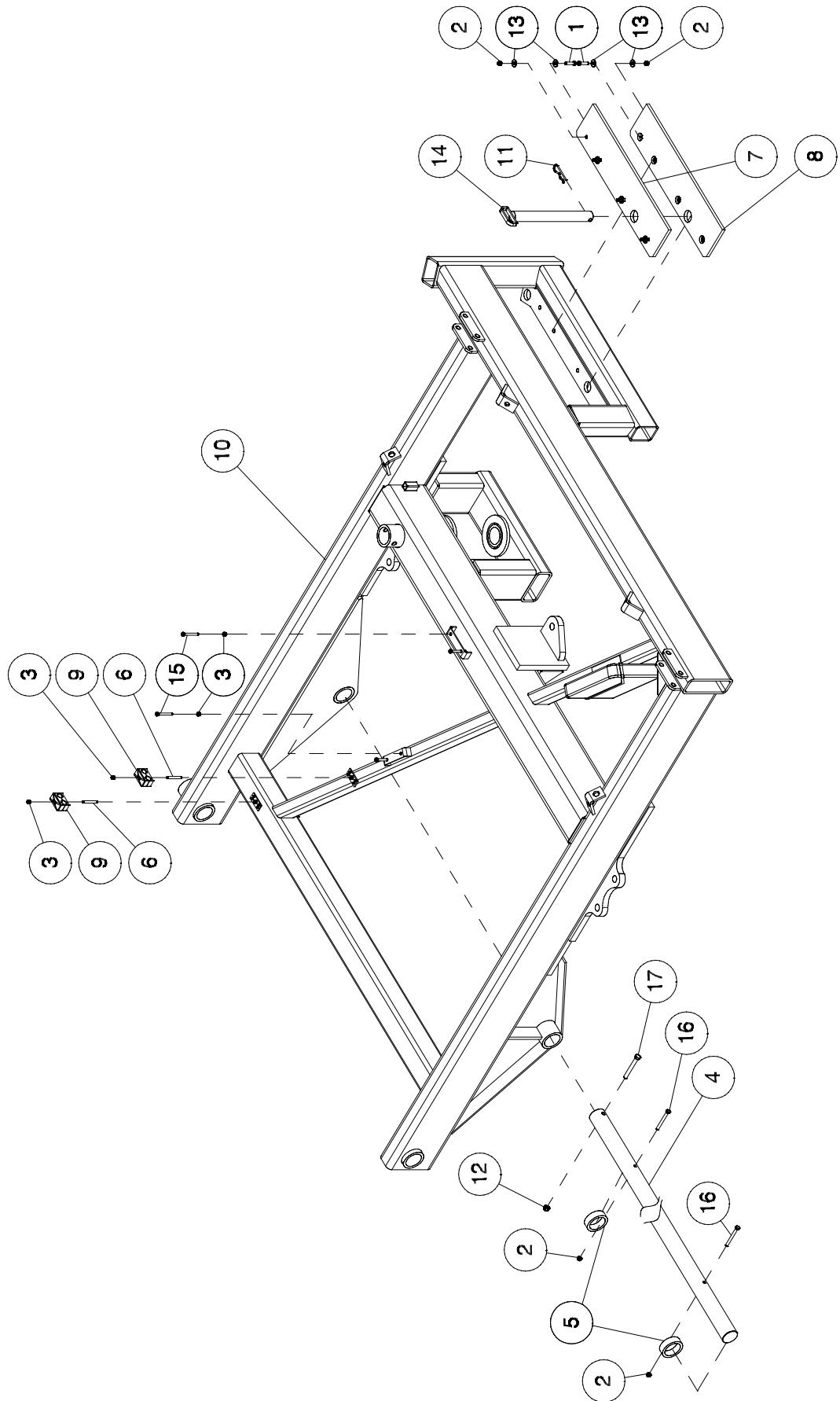


## Bed Assembly

Item	Part No.	Description	Qty
1	10130	Bed Extensions Painted - 2001 to present.....	2
	10416	Bed Extensions Painted - 1999 to 2000.....	2
	10421	Bed Extensions Painted - 1997 to 1998.....	2
2	10163	Forklift Tooth - 8 x 48 .....	2
3	10229	Locknut - 3/8 Nylon Insert .....	2
4	10231	Locknut - 5/16 Nylon Insert .....	6
5	10260	Bed Pivot Shaft .....	1
6	10414	Snap Lock Pins - 5/16 x 4 UL .....	2
7	10811	Set Screw - 5/16 x 2 1/2 Lg.....	4
8	11132	Bracket - SMV Sign.....	1
9	11740	Plastic Hose Clamp - 13/16 .....	4
	10217	3/4" Plastic Hose Clamp - 1997 to 2000 .....	4
10	12290	SR Model Bed Weldment.....	1
	*10048	SR Model Bed Weldment.....	1
11	10063	Hex Bolt - 3/8 x 5 Lg GR8 .....	2
12	F-3405	Locknut - 1/2 Nylon Insert .....	3
13	W-538	Washer - 13/32 ID x 1 OD x 16 Ga .....	4
14	10233	Locknut - 1/4 Nylon Insert .....	2
15	N34475	Slow Moving Vehicle Emblem .....	1
16	S-752	Grease Zerk - 1/4 Straight .....	4
17	S-1198	Washer - 5/16 ID x 3/4 OD x 0.065.....	2
18	W-471	Hex Bolt - 5/16 x 1 Lg .....	2
19	C33957	Bolt Carriage Head - 3/4 x 3 Lg - 2009 .....	2
	10070	Hex Bolt - 1/2 x 1 3/4 Lg GR8 - Prior to 2009 .....	2
20	K25798	Hex Bolt - 1/2 x 4 Lg GR8 .....	1
21	K45683	Fork Retainer Block - 2009 .....	2
	W-539	Flatwasher - 1/2 - Prior to 2009 .....	14
22	W-1552	Hex Bolt - 1/4 x 1 Lg .....	2
23	12519	Pin - Bed Cylinder - 1 1/2 x 7 .....	4
	*10256	Pin - 1 7/16 x 7 .....	4
24	D-5251	Hex Bolt - 7/16 x 3 Lg .....	4
25	10302	Locknut - 7/16 Nylon Insert .....	4
26	W-527	Lockwasher - 3/4.....	2
27	W-518	Hex Nut - 3/4 GR5 .....	2

\* Prior to serial # SR12060881 for the 12SR & SR40600866 for the HD4SR

## HD4SR and 12SR Frame Assembly

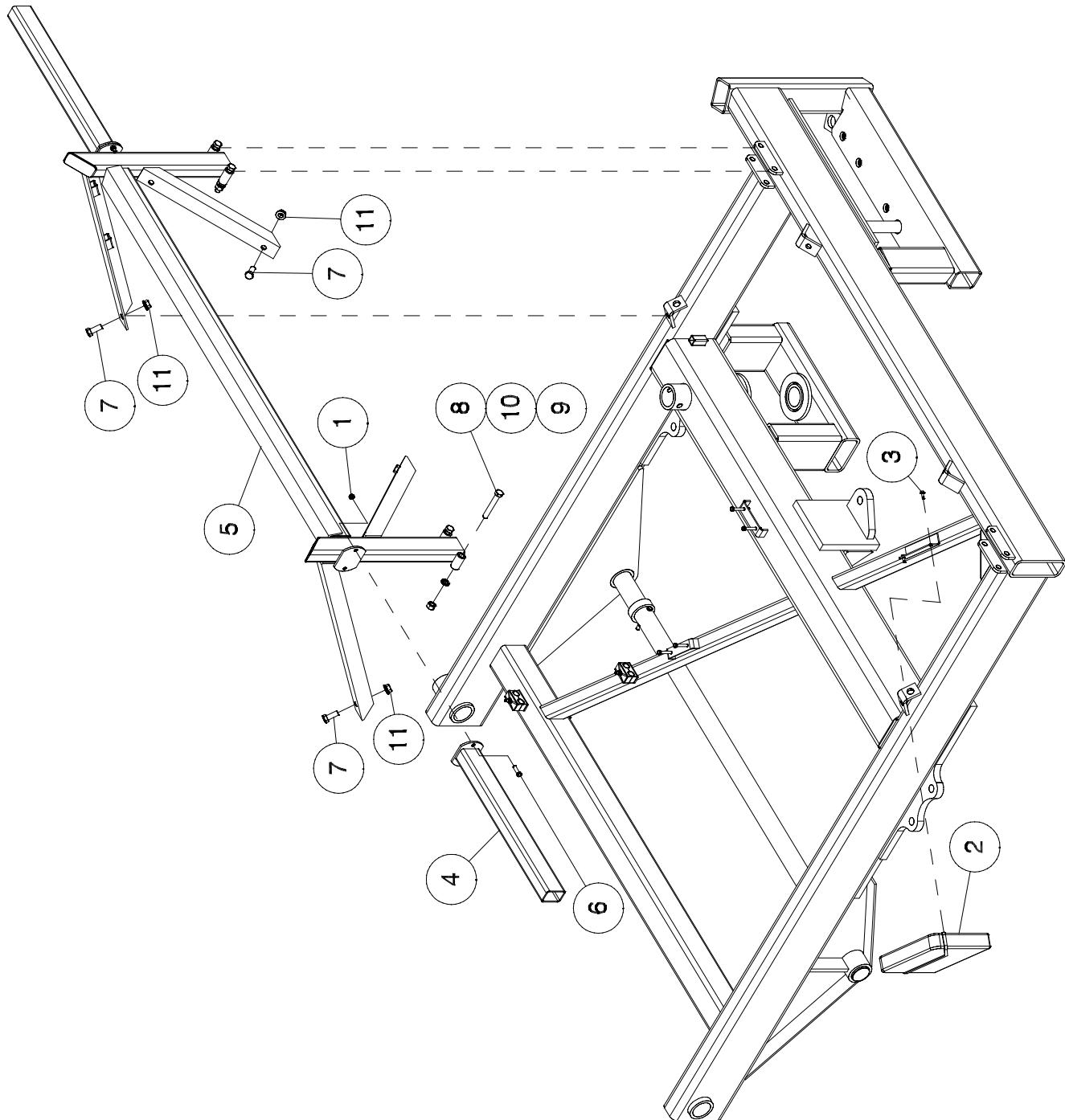


## Frame Assembly

Item	Part No.	Description	Qty
1	W-477	Bolt Hex Head - 3/8 x 1 1/2 Lg.....	8
	*10075	3/8 x 1 1/2 GR 8 Low Allen Head Cap Screw .....	8
2	10229	Nylon Insert Locknut - 3/8 .....	10
3	10231	Nylon Insert Locknut - 5/16 .....	6
4	10258	Hoist Shaft .....	1
5	10308	Hoist Spacer - 3 1/4 OD x .375W.....	2
6	10811	Set Screw - 5/16 x 2 1/2 Lg.....	2
7	11123	Slider Pad - Upper.....	1
8	11124	Slider Pad - Lower.....	1
9	11740	Plastic Hose Clamp Assembly - 13/16.....	2
	10217	3/4" Plastic Hose Clamp - 1997 to 2001 .....	2
10	12474	Main Frame .....	1
	*10131	Main Frame Weldment .....	1
11	BW-11	Hairpin - 3/16 .....	1
12	F-3405	Locknut - 1/2 Nylon Insert .....	2
13	W-538	Washer - 13/32 ID x 1 OD x 16 Ga .....	16
14	K42477	Hitch Safety Pin - 1 1/2 x 13 1/2 UL.....	1
	*10415	Hitch Safety Pin .....	1
15	S-1302	Hex Bolt - 5/16 x 2 1/2 Lg .....	4
16	10813	Hex Bolt - 3/8 x 3 1/2 Lg GR8 .....	2
17	K25798	Hex Bolt - 1/2 x 4 Lg GR8 .....	2

\* Prior To Serial # SR12060881 For The 12SR & SR40600866 For The HD4SR

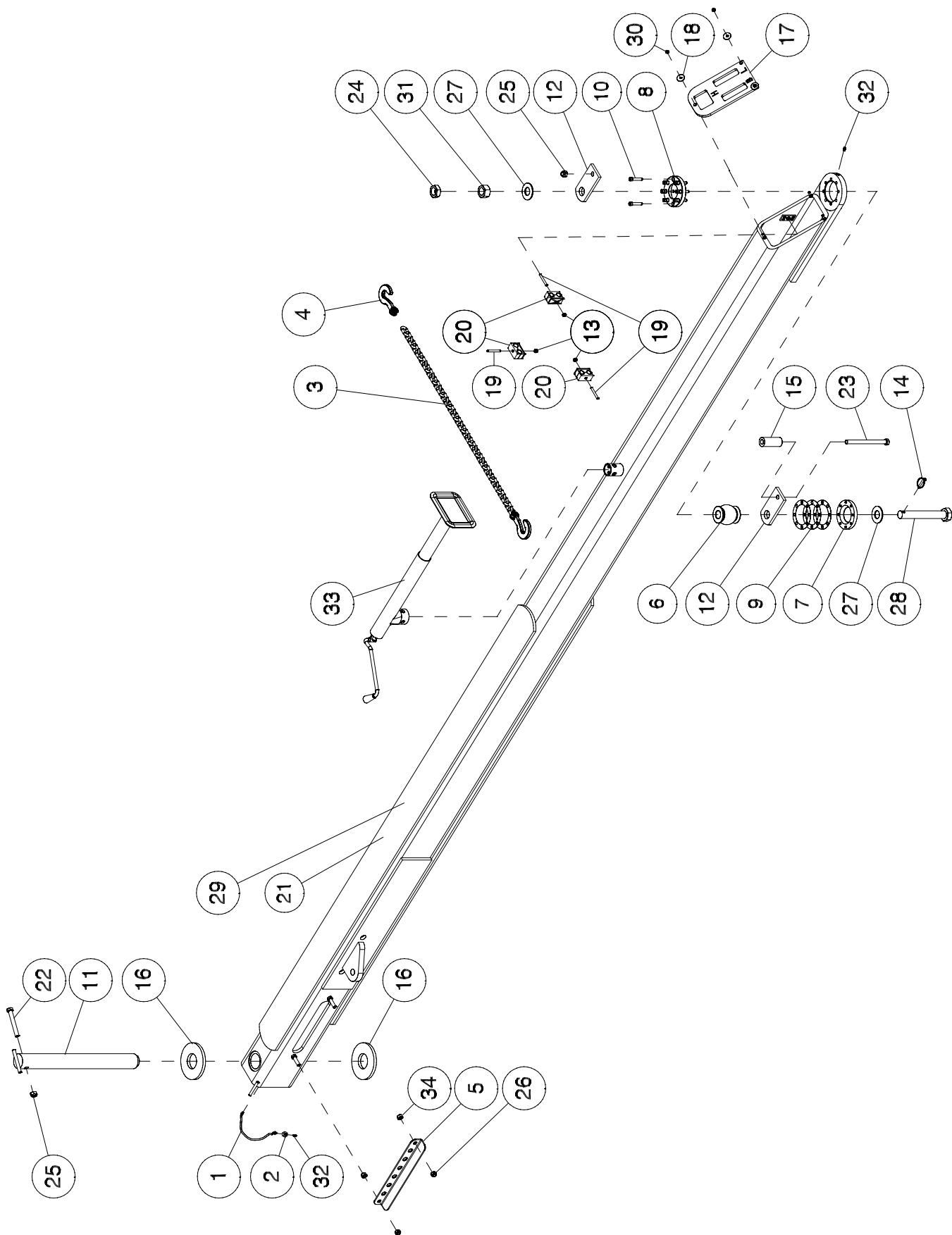
**HD4SR and 12SR  
Bed Rest Assembly**



### Bed Rest

Item	Part No.	Description	Qty
1	10229	Locknut - 3/8 Nylon Insert.....	14
2	10295	Manual Box .....	1
3	10297	Screw - 1/4 - 20 x 3/4 .....	2
4	11129	Light Bar.....	2
5	K42475	Frame - Bed Rest.....	1
6	W-477	Hex Bolt - 3/8 x 1 1/2 Lg .....	4
7	W-497	Hex Bolt - 5/8 x 1 1/2 Lg .....	4
8	W-504	Hex Bolt - 5/8 x 4 Lg .....	4
9	W-517	Hex Nut - 5/8 .....	4
10	W-526	Lockwasher - 5/8.....	4
11	W14434	Locknut - 5/8 Flange .....	4

## HD4SR and 12SR Hitch Assembly



## Hitch Assembly

Item	Part No.	Description	Qty
1	10183	Remote Grease Hose - 1/8 x 12 .....	1
2	10227	Grease Hose Jam Nut - 3/8 .....	1
3	10369	Chain - 3/8 x 8 Foot .....	1
4	10662	3/8 Chain Locking Grab Hook.....	2
5	10025	Hitch Hose Manifold.....	1
	*10019	Hitch Hose Manifold.....	1
6	10049	Hitch Ball.....	1
7	10050	Ring Hitch Lower.....	1
8	10051	Ring Hitch Upper.....	1
9	10052	Ball Hitch Shim.....	3
10	10069	Allen Head Cap Screw Plain - 3/8 x 2 GR 8 .....	8
11	10129	Pin - Hitch Pivot .....	1
12	10142	Plate - Draw Bar Hitch.....	2
13	10231	Locknut - 5/16 Nylon Insert .....	3
14	10247	Klik Pin W/Chain & Cotter Pin.....	1
15	10313	Spacer Bushing - 1 1/2 OD x .375W .....	1
16	10352	Washer - Hitch Pivot .....	2
17	10354	End Cap - Hitch.....	1
18	10364	Washer - 9/32 ID x 1 1/4 OD x 16Ga .....	3
19	10811	Set Screw - 5/16 x 2 1/2 Lg.....	3
20	11740	Plastic Hose Clamp Assembly .....	3
21	12529	Hitch Beam .....	1
	*10199	SR Hitch Painted.....	1
22	10816	Hex Bolt - 5/8 x 5 Lg GR8 .....	1
23	10066	Hex Bolt - 5/8 x 8 Lg GR8 .....	1
24	C15768	Hex Jam Nut - 1 1/4 .....	1
25	10230	Locknut - 5/8 Nylon Insert .....	2
26	F-3405	Locknut - 1/2 Nylon Insert .....	2
27	10682	Washer - 1 5/16 ID x 2 3/4 OD x 8 Ga .....	2
28	K42469	Hitch Bolt - 1 1/4 x 9 Lg.....	1
29	K42480	Assembly - Hitch Beam W/Ball Clevis.....	1
30	10233	Locknut - 1/4 Nylon Insert.....	3
31	P61D20	Hex Nut - 1 1/4 .....	1
32	S-752	Straight Grease Zerk - 1/4 .....	2
33	S39391	Top Wind Jack - 2000 Lb.....	1
	10200	SR Jack.....	1
34	W-516	Hex Nut - 1/2 .....	2

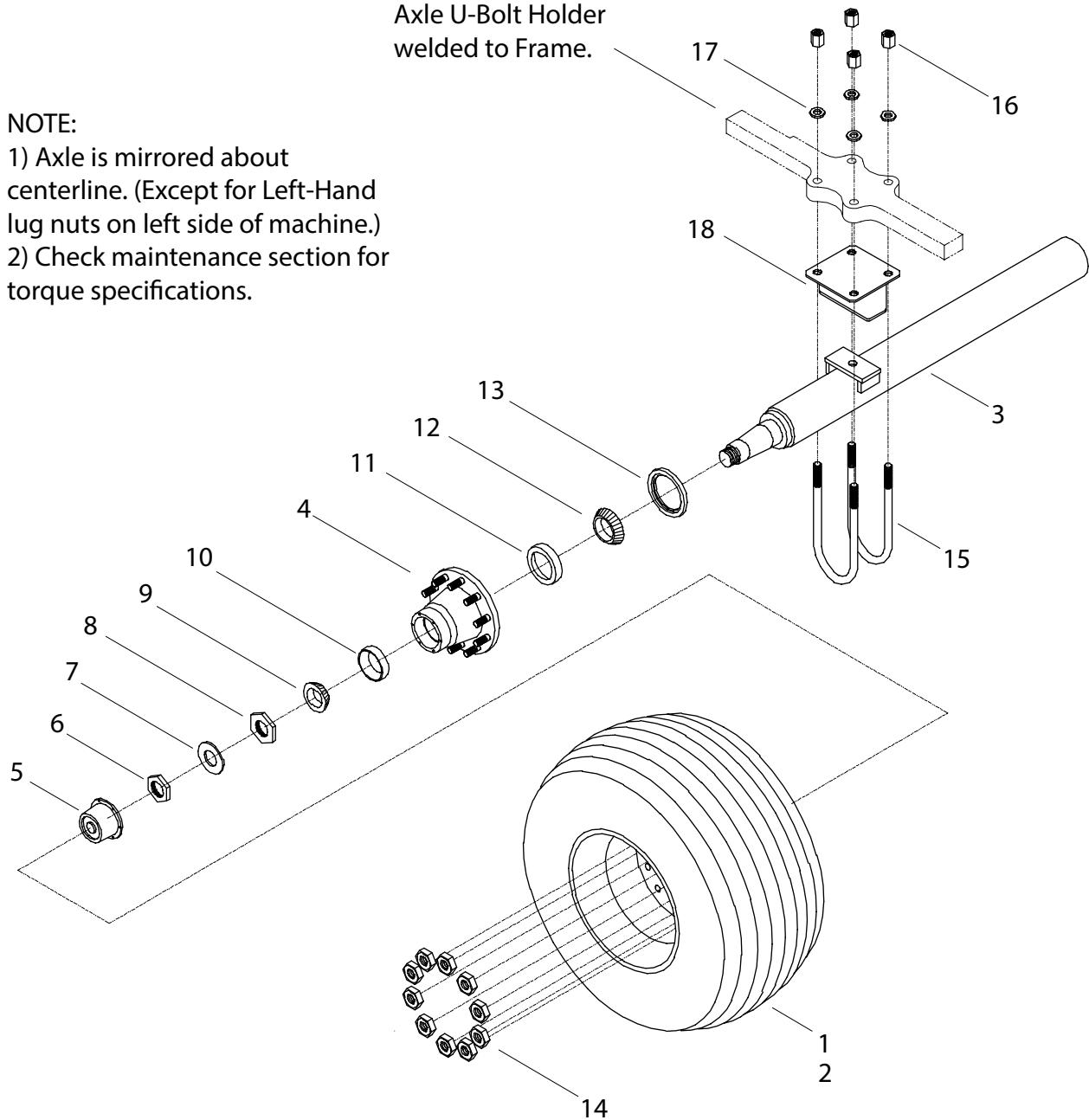
\* Prior To Serial # SR12060881 For The 12SR & SR40600866 For The HD4SR

**HD4SR and 12SR  
Implement Tire and Axle Assembly - Prior to 2015**

HD4SR - Standard Equipment

**NOTE:**

- 1) Axle is mirrored about centerline. (Except for Left-Hand lug nuts on left side of machine.)
- 2) Check maintenance section for torque specifications.



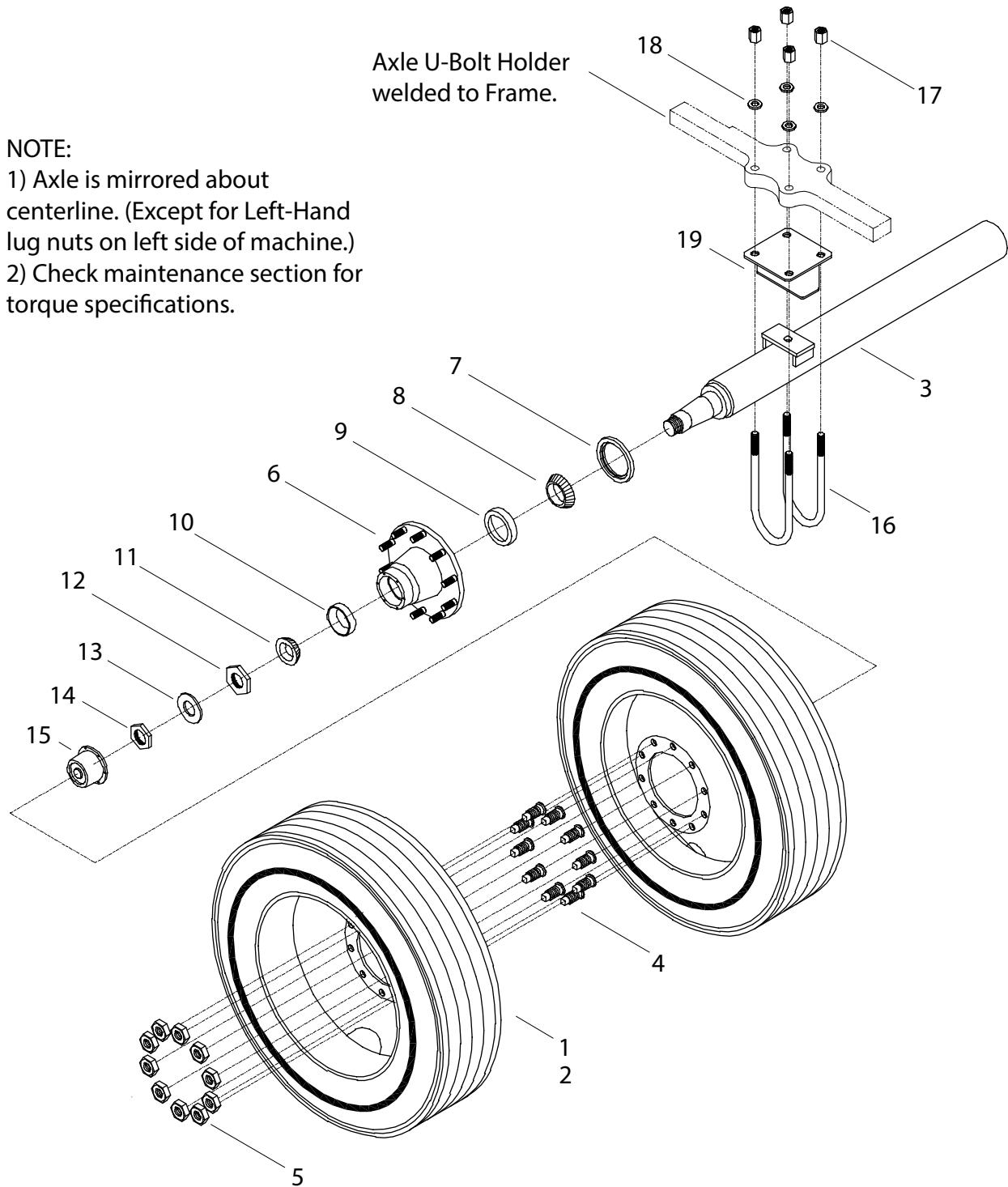
## Implement Tire and Axle Assembly - Prior to 2015

Item	Part No.	Description	Qty
1	10365	Implement Wheel .....	2
2	10005	21.5x16.1 18Ply I-1 Ribbed Implement Tire.....	2
3	10408	Standard Axle Beam - 106 Lg (Includes Items 4, 5, 6, 7, 8, 9, 10, 11, 12 & 13).....	1
4	10039	LH 10-Bolt - 8.75 Hub .....	1
	10783	RH 10-Bolt - 8.75 Hub.....	1
5	11677	Hub Oil Cap .....	2
6	10785	Outside Spindle Nut.....	2
7	10786	Spindle Washer.....	2
8	10787	Inside Spindle Nut.....	2
9	10788	Outside Cone Bearing.....	2
10	10789	Outside Bearing Race.....	2
11	10790	Inside Bearing Race.....	2
12	10791	Inside Cone Bearing .....	2
13	10792	Oil Seal .....	2
14	10047	RH Single Lug Nut .....	10
	10046	LH Single Lug Nut.....	10
15	10077	7/8" x 12" - 5" Round U-Bolt - Plain .....	4
16	10234	7/8" Heavy Duty High Plain Nut .....	8
17	10041	7/8" Heavy Duty Washer .....	8
18	11137	4" Riser Block Painted.....	2

\* Quantities Listed Are For One Machine

**HD4SR and 12SR**  
**Truck Tire and Axle Assembly - Prior to 2015**

HD4SR - Optional Equipment  
12SR - Optional Equipment



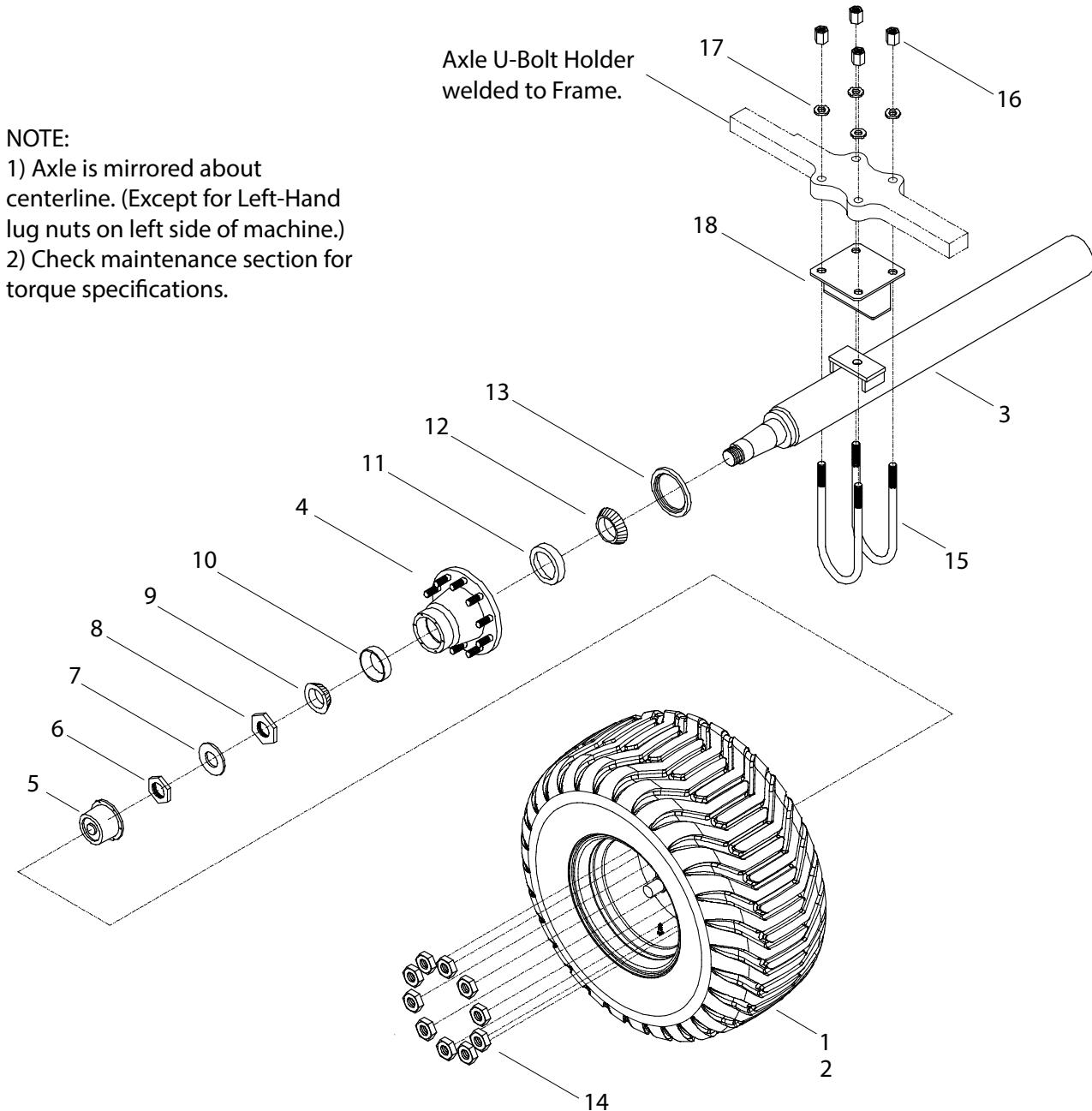
### Truck Tire and Axle Assembly - Prior to 2015

Item	Part No.	Description	Qty
1	10316	11R-24.5 14-Ply Truck Tire.....	4
2	10366	SR 24.5 Truck Wheel.....	4
3	10409	Standard Axle Beam - 105 Lg (Includes Items 6, 7, 8, 9, 10, 11, 12, 13, 14 & 15).....	1
4	10043	RH Dual Lug Nut Inner.....	10
	10042	LH Dual Lug Nut Inner .....	10
5	10045	RH Dual Lug Nut Outer.....	10
	10044	LH Dual Lug Nut Outer .....	10
6	10793	RH 10-Bolt - 11.25 Hub.....	1
	10794	LH 10-Bolt - 11.25 Hub .....	1
7	10792	Oil Seal .....	2
8	10791	Inside Cone Bearing .....	2
9	10790	Inside Bearing Race.....	2
10	10789	Outside Bearing Race.....	2
11	10788	Outside Cone Bearing.....	2
12	10787	Inside Spindle Nut.....	2
13	10786	Spindle Washer.....	2
14	10785	Outside Spindle Nut.....	2
15	11677	Hub Oil Cap .....	2
16	10077	7/8 x 12 - 5 Round U-Bolt .....	4
17	10234	7/8 Heavy Duty High Plain Nut .....	8
18	10041	7/8 Heavy Duty Washer .....	8
19	10383	Riser Block - 2 inches High.....	2
	11137	Riser Block - 4 inches High - 2001.....	2
* Quantities Listed Are For One Machine.....			

**HD4SR and 12SR**  
**Terra Tire and Axle Assembly - Prior to 2015**

12SR - Standard Equipment

HD4SR - Optional Equipment



### Terra Tire and Axle Assembly - Prior to 2015

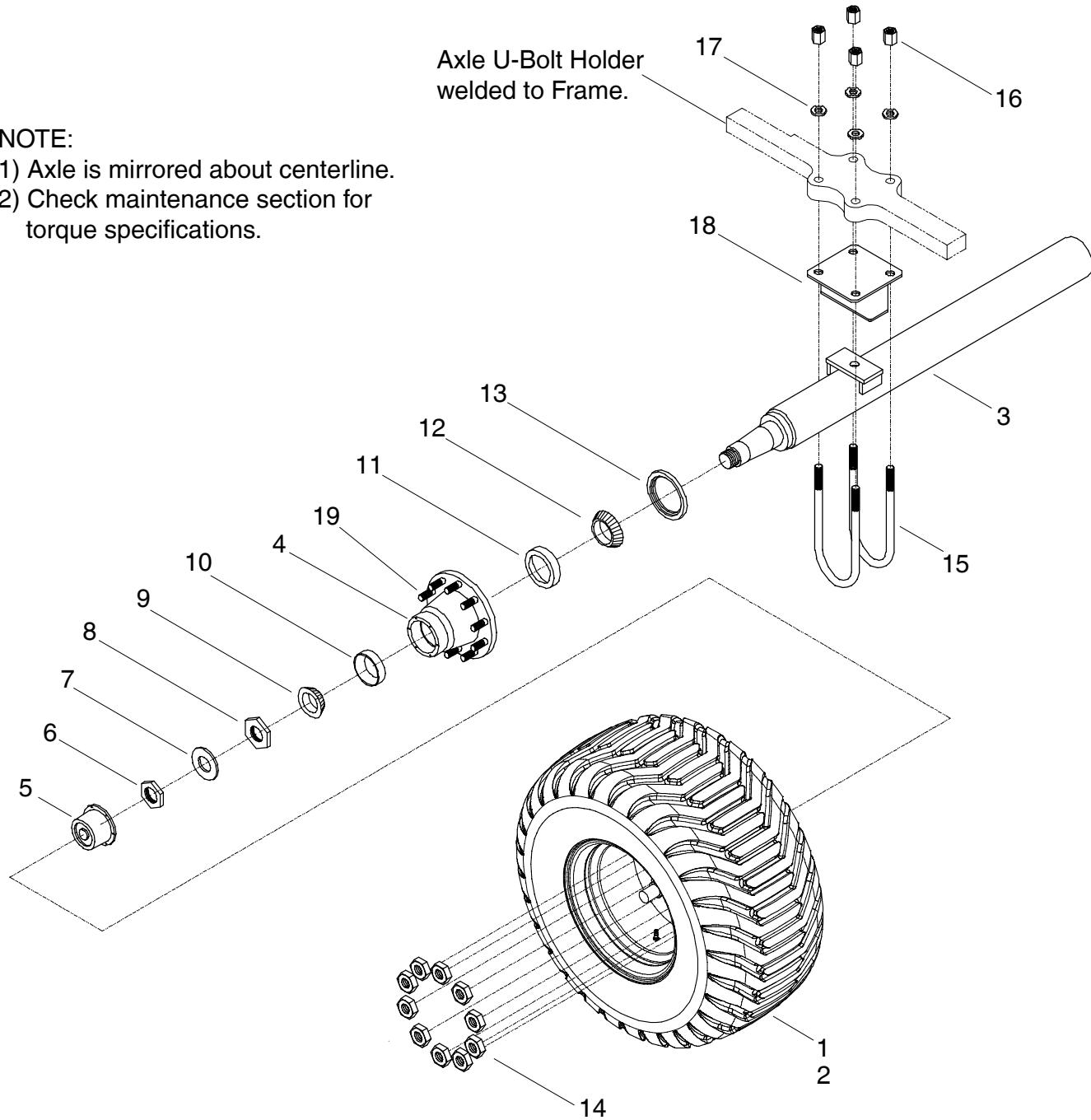
<b>Item</b>	<b>Part No.</b>	<b>Description</b>	<b>Qty</b>
1	10367	Rim - 20 x 22.5 - 10 Bolt .....	2
W-3328		Valve Stem (Not Shown)	
2	10006	600/55-22.5 - 16-Ply Terra Tire .....	2
3	10409	Standard Axle Beam - 105 Lg (Includes Items 4, 5, 6, 7, 8, 9, 10, 11, 12 & 13).....	1
4	10794	LH 10-Bolt - 11.25 Hub .....	1
	10793	RH 10-Bolt - 11.25 Hub.....	1
5	11677	Hub Oil Cap .....	2
6	10785	Outside Spindle Nut.....	2
7	10786	Spindle Washer.....	2
8	10787	Inside Spindle Nut.....	2
9	10788	Outside Cone Bearing.....	2
10	10789	Outside Bearing Race.....	2
11	10790	Inside Bearing Race.....	2
12	10791	Inside Cone Bearing .....	2
13	10792	Oil Seal .....	2
14	10047	RH Single Lug Nut .....	10
	10046	LH Single Lug Nut.....	10
15	10077	7/8 x 12 - 5 Round U-Bolt - Plain .....	4
16	10234	7/8 Heavy Duty High Plain Nut .....	8
17	10041	7/8 Heavy Duty Washer .....	8
18	10383	Riser Block - 2 inches High.....	2

\* Quantities Listed Are For One Machine

**HD4SR and 12SR**  
**Terra Tire and Axle Assembly - 2015 to Present**

**12SR - Standard Equipment - from serial number SR12153114 and on.**

**HD4SR** - Standard Equipment - from SR4151368 to SR4151372 and from serial number SR4151376 and on.



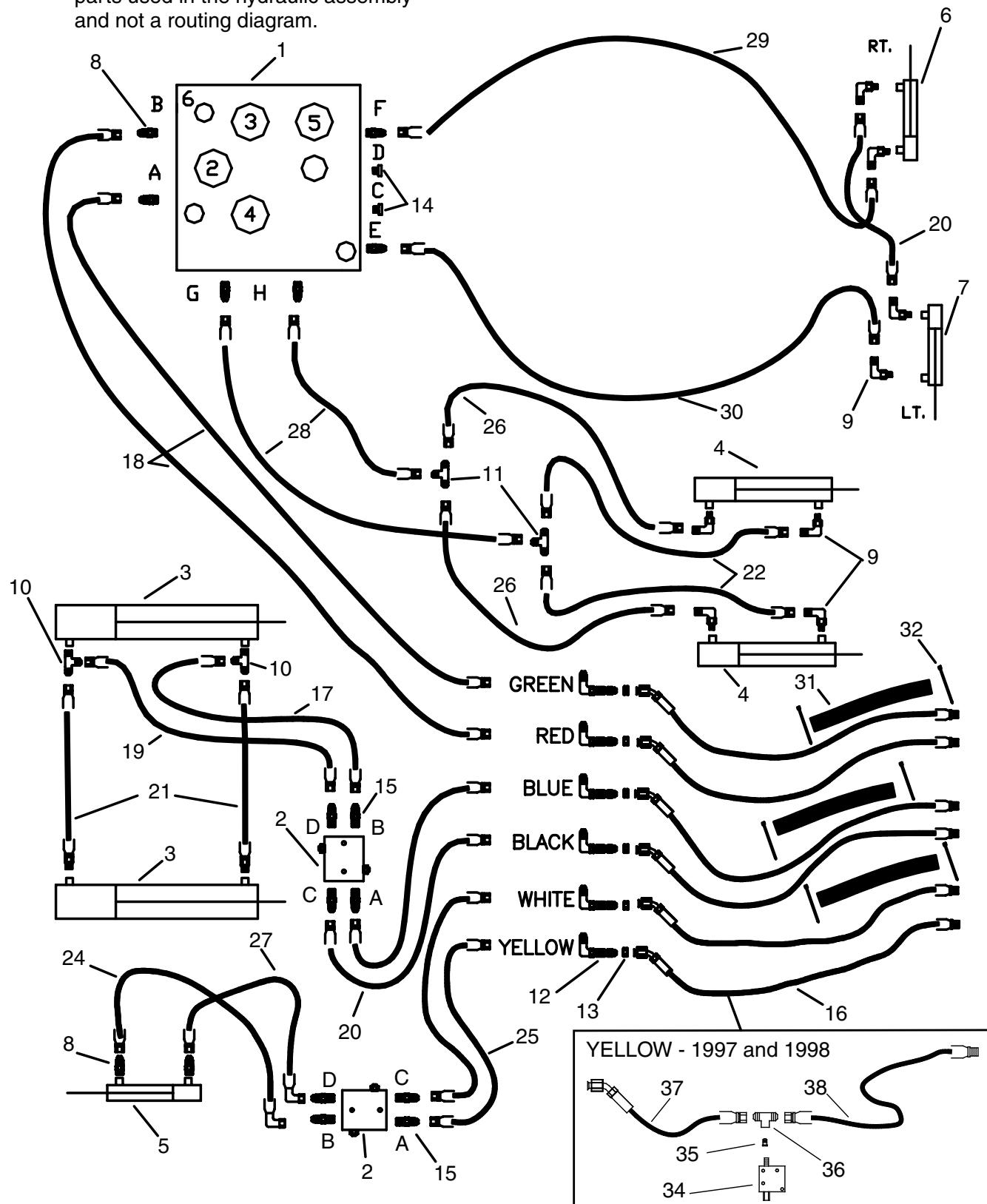
## Terra Tire and Axle Assembly - 2015 to Present

Item	Part No.	Description	Qty
1	<b>K56776</b>	Rim - 20 x 22.5 - 10 Bolt.....	2
	W-3328	Valve Stem (Not Shown)	
2	<b>K56777</b>	Tire - 600/50-22.5 - 16-Ply - TVS Eurogrip .....	2
3	10409	Standard Axle Beam - 105 Lg (Includes Items 4, 5, 6, 7, 8, 9, 10, 11, 12 & 13).....	1
4	<b>10793</b>	<b>RH 10-Bolt - 11.25 Hub (Includes wheel studs)</b> .....	2
5	11677	Hub Oil Cap .....	2
6	10785	Outside Spindle Nut.....	2
7	10786	Spindle Washer.....	2
8	10787	Inside Spindle Nut.....	2
9	10788	Outside Cone Bearing.....	2
10	10789	Outside Bearing Race.....	2
11	10790	Inside Bearing Race.....	2
12	10791	Inside Cone Bearing .....	2
13	10792	Oil Seal .....	2
14	<b>10047</b>	<b>RH Single Lug Nut .....</b>	<b>20</b>
15	10077	7/8 x 12 - 5 Round U-Bolt - Plain .....	4
16	10234	7/8 Heavy Duty High Plain Nut .....	8
17	10041	7/8 Heavy Duty Washer .....	8
18	11137	<b>Riser Block - 4 inches High.....</b>	<b>2</b>
19	12100	RH Wheel Stud - 3/4 x 2-5/8 Lg (Vendor #s WEBB 198510 or EUCLID E4968R) .....	20

\* Quantities Listed Are For One Machine

## HD4SR and 12SR HD4SR Hydraulic Hose Schematic

Note: This is a representation of the parts used in the hydraulic assembly and not a routing diagram.



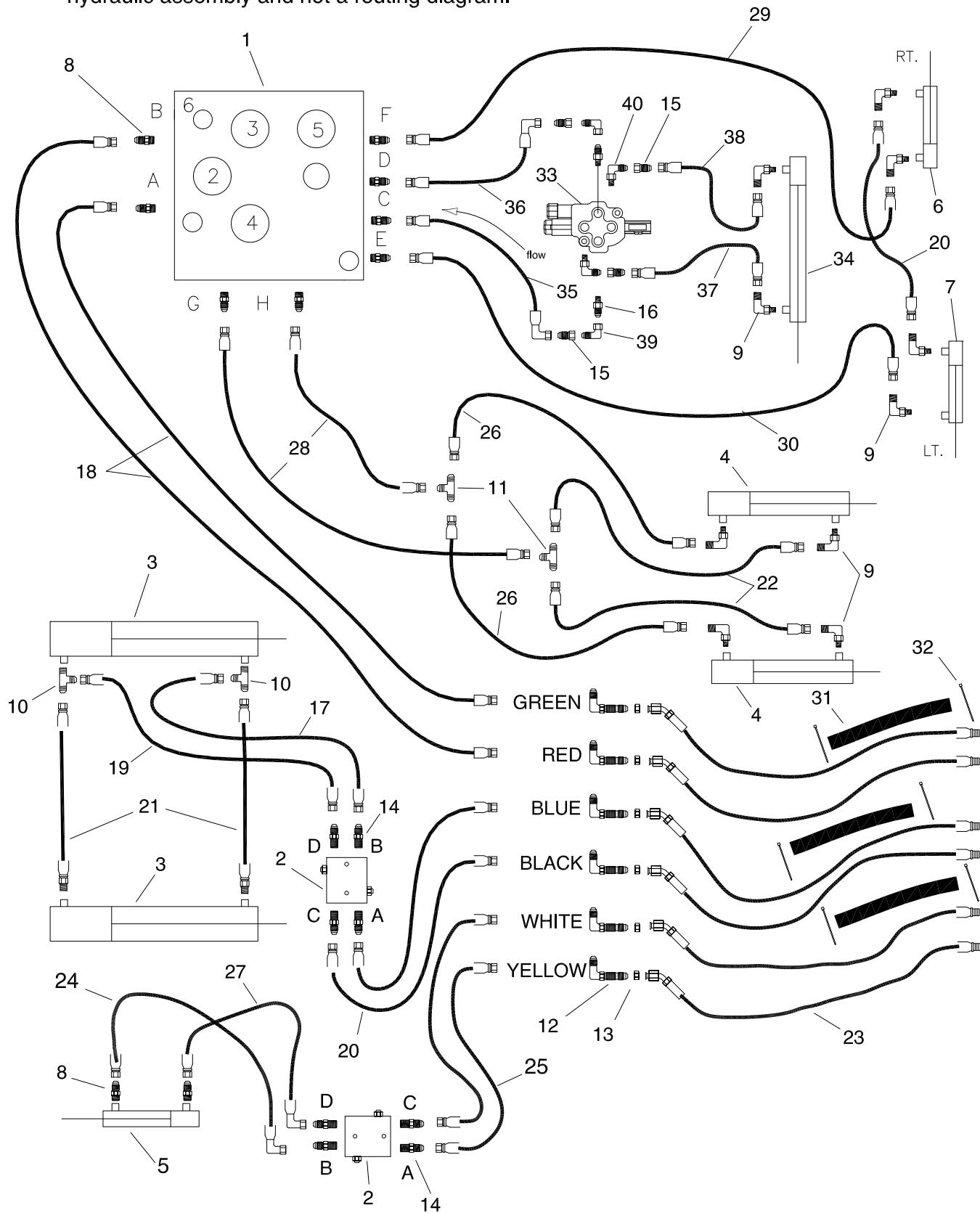
## HD4SR Hydraulic Hose Schematic

Item	Part No.	Description	Qty
1	K56756	Manifold Valve .....	1
	K44257	Manifold Block - D3403C SI	
	K44258	Cavity Plug - #XBOA-XXN - <b>PORT 2</b>	
	K44259	Sequence Valve - #SCEA-LAN - <b>PORT 3</b>	
	K44260	Counterbalance Valve - #CBEA-LHN - <b>PORT 4</b>	
	K44261	Sequence Valve - #RSFC-LAN - <b>PORT 5</b>	
	K44262	Check Valve - #CXCD-XZN - <b>PORT 6</b>	
2	11723	Cushion Valve - 2000 PSI .....	2
	10328	2000 PSI Cushion Valve Painted - 1997 to 2001 .....	2
3	10033	Bed Cylinder .....	2
4	10032	Loader Cylinder.....	2
5	12302	Hitch Cylinder.....	1
6	10035	RH Alignment Cylinder.....	1
7	10034	LH Alignment Cylinder .....	1
8	10178	Connector - 08 MJIC To 08 MORB - (C15330) .....	8
9	10180	90 Degree Elbow ORB Adapter .....	8
10	10187	Tee - 08 ORB To 08 JIC To 08 JIC .....	2
11	10186	Tee - 08 JIC To 08 JIC To 08 JIC.....	2
12	10181	Bulkhead Fitting - 08 90 Degree .....	6
13	10171	Bulkhead Fitting Jam Nut - 08.....	6
14	10174	Port Plug - 08 ORB .....	2
15	10177	Connector - 08 MJIC To 12 MORB .....	8
	10175	Connector - 08 MJIC To 1/2 Pipe Male - 1997 to 2001 .....	8
16	10168	Hose - 1/2 x 252 Lg - #8 3/4-16 FJIC 45 Degree Swivel x 1/2-14 MNPT .....	6
17	10083	Hose - 1/2 x 102 Lg - #8 3/4-16 FJIC Swivel .....	1
18	10086	Hose - 1/2 x 201 Lg - #8 3/4-16 FJIC Swivel .....	2
19	10675	Hose - 1/2 x 85 Lg - #8 3/4-16 FJIC Swivel .....	1
20	10865	Hose - 1/2 x 61 Lg - #8 3/4-16 FJIC Swivel .....	3
21	10085	Hose - 1/2 x 57 Lg - #8 3/4-16 FJIC Swivel x #8 3/4-16 MORB.....	2
22	10866	Hose - 1/2 x 80 Lg - #8 3/4-16 FJIC Swivel .....	2
23	*****		
24	10081	Hose - 1/2 x 42 Lg - #8 3/4-16 FJIC Swivel x #8 3/4-16 FJIC 90 Degree Swivel.....	1
25	10329	Hose - 1/2 x 40 Lg - #8 3/4-16 FJIC Swivel .....	2
26	10868	Hose - 1/2 x 88 Lg - #8 3/4-16 FJIC Swivel .....	2
27	10691	Hose - 1/2 x 36 Lg - #8 3/4-16 FJIC Swivel x #8 3/4-16 FJIC 90 Degree Swivel.....	1
28	10869	Hose - 1/2 x 17 Lg - #8 3/4-16 FJIC Swivel .....	2
29	10890	Hose - 1/2 x 111 Lg - #8 3/4-16 FJIC Swivel .....	1
30	10879	Hose - 1/2 x 114 Lg - #8 3/4-16 FJIC Swivel .....	1
31	10185	Hose Sheathing - 3 ft .....	3
32	10080	Tie Strap - 11 Lg .....	6
33	C-817	Male Tip - 1/2 FNPT (Not Shown).....	6
34	10190	Modified Pressure Switch (Wired) - 1997 to 1998 .....	1
35	10172	06 x 04 Bushing - 1997 to 1998 .....	1
36	10188	Tee - 08 Female Branch - 1997 to 1998.....	1
37	10169	Hose - 201" 608/688 - 1997 to 1998 .....	1
38	10396	Hose - 69" 608/108 - 1997 to 1998 .....	1

**HD4SR and 12SR**  
**12SR Hydraulic Hose Schematic - 2015 to Present**

For Serial Number - SR12153114 and Up

Note: This is a representation of the parts used in the hydraulic assembly and not a routing diagram.



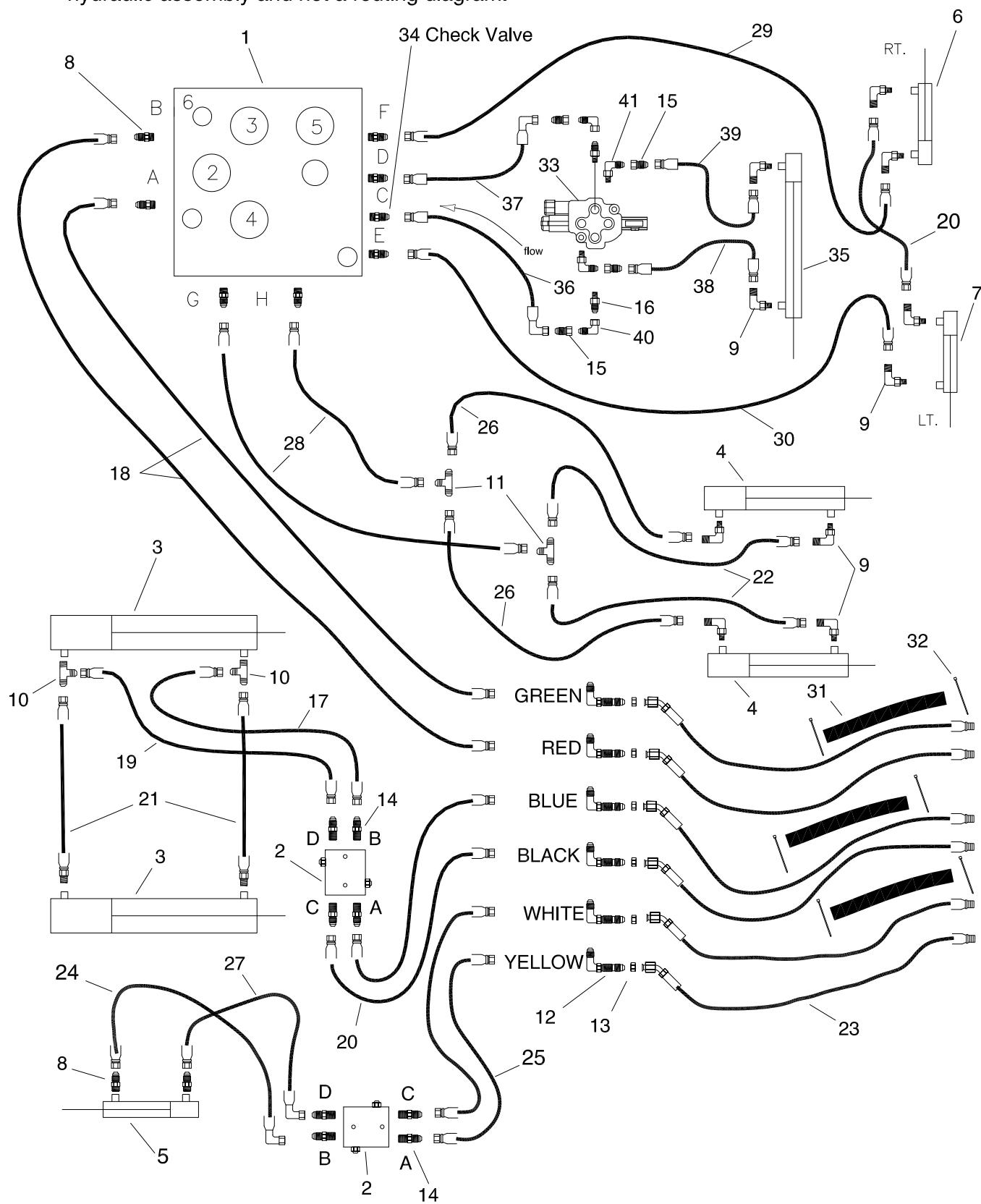
## 12SR Hydraulic Hose Schematic - 2015 to Present

Item	Part No.	Description	Qty
1	K56756	Manifold Valve .....	1
	K44257	Manifold Block - D3403C SI	
	K44258	Cavity Plug - #XBOA-XXN - <b>PORT 2</b>	
	K44259	Sequence Valve - #SCEA-LAN - <b>PORT 3</b>	
	K44260	Counterbalance Valve - #CBEA-LHN - <b>PORT 4</b>	
	K44261	Sequence Valve - #RSFC-LAN - <b>PORT 5</b>	
	K44262	Check Valve - #CXCD-XZN - <b>PORT 6</b>	
2	11723	Cushion Valve - 2000 PSI .....	2
3	10033	Bed Cylinder .....	2
4	10032	Loader Cylinder.....	2
5	12302	Hitch Cylinder 2004.....	1
6	10035	RH Alignment Cylinder.....	1
7	10034	LH Alignment Cylinder .....	1
8	10178	Connector - 08 MJIC To 08 MORB - (C15330) .....	10
9	10180	90 Degree Elbow - 08 MJIC To 08 MORB (C15317).....	10
<b>10</b>	<b>10187</b>	<b>Tee - 08 MORB To 08 MJIC To 08 MJIC .....</b>	<b>2</b>
11	10186	Tee - 08 MJIC To 08 MJIC To 08 MJIC (D10819).....	2
12	10181	90 Degree Bulkhead Fitting - 08 .....	6
13	10171	Bulkhead Fitting Jam Nut - 08.....	6
14	10177	Connector - 08 MJIC To 12 MORB .....	8
15	N37876	Connector - 3/4-16 (#08) MJIC x 9/16-18 (#06) FJIC .....	4
16	N29358	Connector - 9/16-18 (#06) MJIC x 9/16-18 (#06) MORB .....	2
17	10083	Hose - 1/2 x 102 Lg - #8 3/4-16 FJIC Swivel .....	1
18	10086	Hose - 1/2 x 201 Lg - #8 3/4-16 FJIC Swivel .....	2
19	10675	Hose - 1/2 x 85 Lg - #8 3/4-16 FJIC Swivel .....	1
20	10865	Hose - 1/2 x 61 Lg - #8 3/4-16 FJIC Swivel .....	3
21	10085	Hose - 1/2 x 57 Lg - #8 3/4-16 FJIC Swivel x #8 3/4-16 MORB.....	2
22	10866	Hose - 1/2 x 80 Lg - #8 3/4-16 FJIC Swivel .....	2
23	10168	Hose - 1/2 x 252 Lg - #8 3/4-16 FJIC 45 Degree Swivel x 1/2-14 MNPT .....	6
24	10081	Hose - 1/2 x 42 Lg - #8 3/4-16 FJIC Swivel x #8 3/4-16 FJIC 90 Degree Swivel.....	1
25	10329	Hose - 1/2 x 40 Lg - #8 3/4-16 FJIC Swivel .....	2
26	10868	Hose - 1/2 x 88 Lg - #8 3/4-16 FJIC Swivel .....	2
27	10691	Hose - 1/2 x 36 Lg - #8 3/4-16 FJIC Swivel x #8 3/4-16 FJIC 90 Degree Swivel.....	1
28	10869	Hose - 1/2 x 17 Lg - #8 3/4-16 FJIC Swivel .....	2
29	10890	Hose - 1/2 x 111 Lg - #8 3/4-16 FJIC Swivel .....	1
30	10879	Hose - 1/2 x 114 Lg - #8 3/4-16 FJIC Swivel .....	1
31	10185	Hose Sheathing - 3 ft .....	3
32	10080	Zip-Tie - 11 Lg.....	6
33	K53973	Directional Control Valve - Grab Hook .....	1
34	12166	Grab Hook Cylinder 03 .....	1
35	10874	Hose - 1/2 x 48 Lg - #8 3/4-16 FJIC Swivel x #8 3/4-16 FJIC 90 Degree Swivel.....	1
36	12244	Hose - 1/2 x 51 Lg - #8 3/4-16 FJIC Swivel x #8 3/4-16 FJIC 90 Degree Swivel.....	1
37	10863	Hose - 1/2 x 35 Lg - #8 3/4-16 FJIC Swivel .....	1
38	10329	Hose - 1/2 x 40 Lg - #8 3/4-16 FJIC Swivel .....	1
39	S29967	90 Elbow - Swivel - 9/16-18 (#06) FJIC x 9/16-18 (#06) MJIC.....	2
40	N16143	90 Elbow - 9/16-18 (#06) MJIC x 9/16-18 (#06) MORB.....	2
41	C-817	Male Tip - 1/2 FNPT (Not Shown).....	6

**HD4SR and 12SR  
12SR Hydraulic Hose Schematic - 2014 to 2015**

For Serial Number - SR12143100 to SR12153113

Note: This is a representation of the parts used in the hydraulic assembly and not a routing diagram.



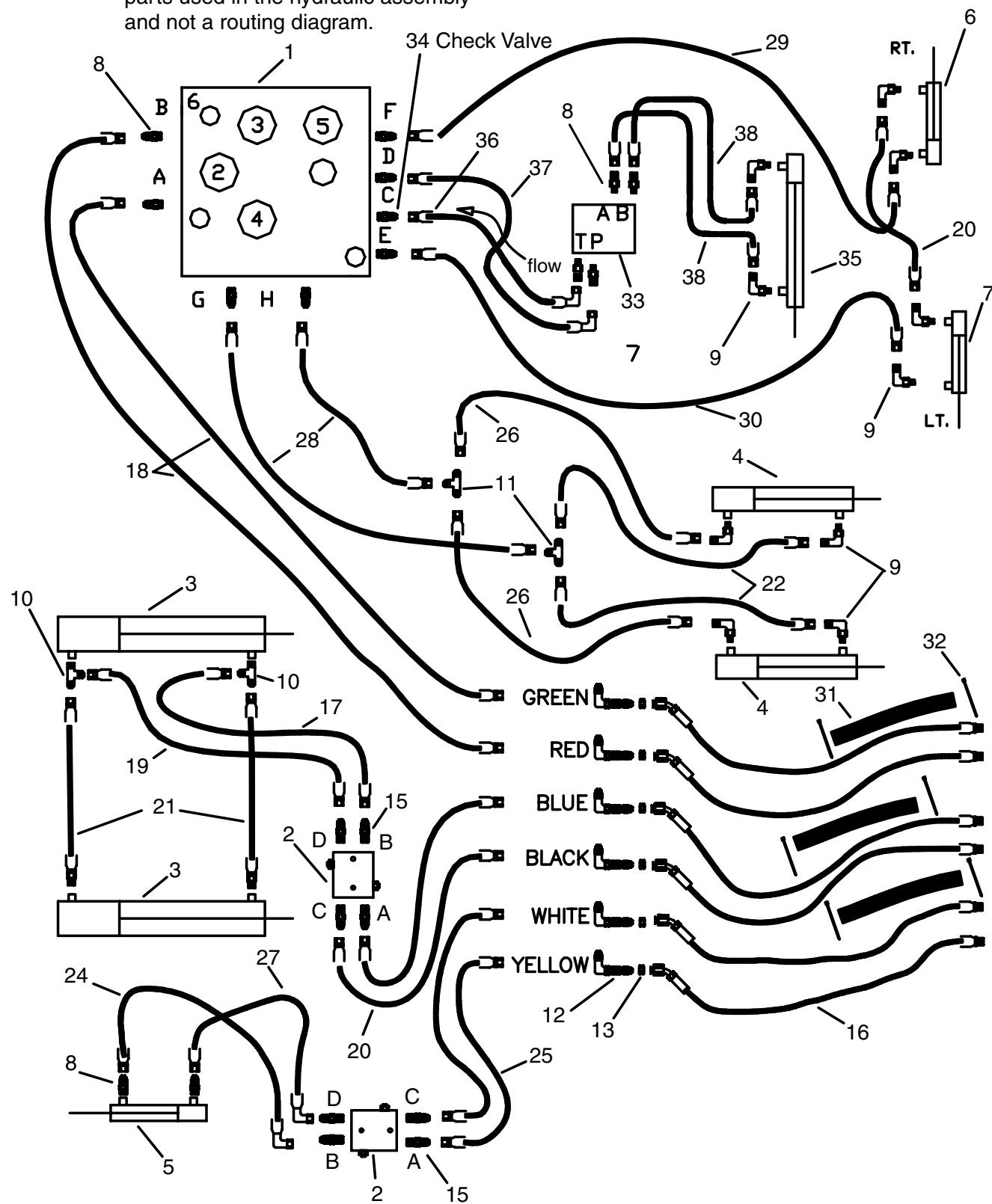
## 12SR Hydraulic Hose Schematic - 2014 to 2015

Item	Part No.	Description	Qty
1	10222	Manifold Valve .....	1
	K44257	Manifold Block - D3403C SI	
	K44258	Cavity Plug - #XBOA-XXN - <b>PORT 2</b>	
	K44259	Sequence Valve - #SCEA-LAN - <b>PORT 3</b>	
	K44260	Counterbalance Valve - #CBEA-LHN - <b>PORT 4</b>	
	K44261	Sequence Valve - #RSFC-LAN - <b>PORT 5</b>	
	K44262	Check Valve - #CXCD-XZN - <b>PORT 6</b>	
2	11723	Cushion Valve - 2000 PSI .....	2
3	10033	Bed Cylinder .....	2
4	10032	Loader Cylinder.....	2
5	12302	Hitch Cylinder 2004.....	1
6	10035	RH Alignment Cylinder.....	1
7	10034	LH Alignment Cylinder .....	1
8	10178	08 JIC To 08 ORB Straight Port Adapter (C15330).....	8
9	10180	90 Degree Elbow ORB Adapter .....	10
10	10187	08 ORB To 08 JIC To 08 JIC Run Tee .....	2
11	10186	08 JIC To 08 JIC To 08 JIC Union Tee.....	2
12	10181	08 90 Degree Bulkhead Fitting .....	6
13	10171	08 Bulkhead Fitting Jam Nut.....	6
14	10177	08 JIC To 12 ORB Straight Male Adapter .....	8
15	N37876	Connector - 3/4-16 (#08) MJIC x 9/16-18 (#06) FJIC .....	4
16	N29358	Connector - 9/16-18 (#06) MJIC x 9/16-18 (#06) MORB .....	2
17	10083	Hose - 1/2 x 102 Lg - #8 3/4-16 FJIC Swivel .....	1
18	10086	Hose - 1/2 x 201 Lg - #8 3/4-16 FJIC Swivel .....	2
19	10675	Hose - 1/2 x 85 Lg - #8 3/4-16 FJIC Swivel .....	1
20	10865	Hose - 1/2 x 61 Lg - #8 3/4-16 FJIC Swivel .....	3
21	10085	Hose - 1/2 x 57 Lg - #8 3/4-16 FJIC Swivel x #8 3/4-16 MORB.....	2
22	10866	Hose - 1/2 x 80 Lg - #8 3/4-16 FJIC Swivel .....	2
23	10168	Hose - 1/2 x 252 Lg - #8 3/4-16 FJIC 45 Degree Swivel x 1/2-14 MNPT .....	6
24	10081	Hose - 1/2 x 42 Lg - #8 3/4-16 FJIC Swivel x #8 3/4-16 FJIC 90 Degree Swivel.....	1
25	10329	Hose - 1/2 x 40 Lg - #8 3/4-16 FJIC Swivel .....	2
26	10868	Hose - 1/2 x 88 Lg - #8 3/4-16 FJIC Swivel .....	2
27	10691	Hose - 1/2 x 36 Lg - #8 3/4-16 FJIC Swivel x #8 3/4-16 FJIC 90 Degree Swivel.....	1
28	10869	Hose - 1/2 x 17 Lg - #8 3/4-16 FJIC Swivel .....	2
29	10890	Hose - 1/2 x 111 Lg - #8 3/4-16 FJIC Swivel .....	1
30	10879	Hose - 1/2 x 114 Lg - #8 3/4-16 FJIC Swivel .....	1
31	10185	Hose Sheathing - 3 ft .....	3
32	10080	Zip-Tie - 11 Lg.....	6
33	K53973	Directional Control Valve - Grab Hook .....	1
34	10854	Check Valve Adapter 5 PSI .....	1
35	12166	Grab Hook Cylinder 03 .....	1
36	10874	Hose - 1/2 x 48 Lg - #8 3/4-16 FJIC Swivel x #8 3/4-16 FJIC 90 Degree Swivel.....	1
37	12244	Hose - 1/2 x 51 Lg - #8 3/4-16 FJIC Swivel x #8 3/4-16 FJIC 90 Degree Swivel.....	1
38	10863	Hose - 1/2 x 35 Lg - #8 3/4-16 FJIC Swivel .....	1
39	10329	Hose - 1/2 x 40 Lg - #8 3/4-16 FJIC Swivel .....	1
40	S29967	90 Elbow - Swivel - 9/16-18 (#06) FJIC x 9/16-18 (#06) MJIC.....	2
41	N16143	90 Elbow - 9/16-18 (#06) MJIC x 9/16-18 (#06) MORB .....	2
42	C-817	Male Tip - 1/2 FNPT (Not Shown).....	6

**HD4SR and 12SR  
12SR Hydraulic Hose Schematic - 2004 to 2013**

For Serial Numbers - Prior to SR12143100

Note: This is a representation of the parts used in the hydraulic assembly and not a routing diagram.

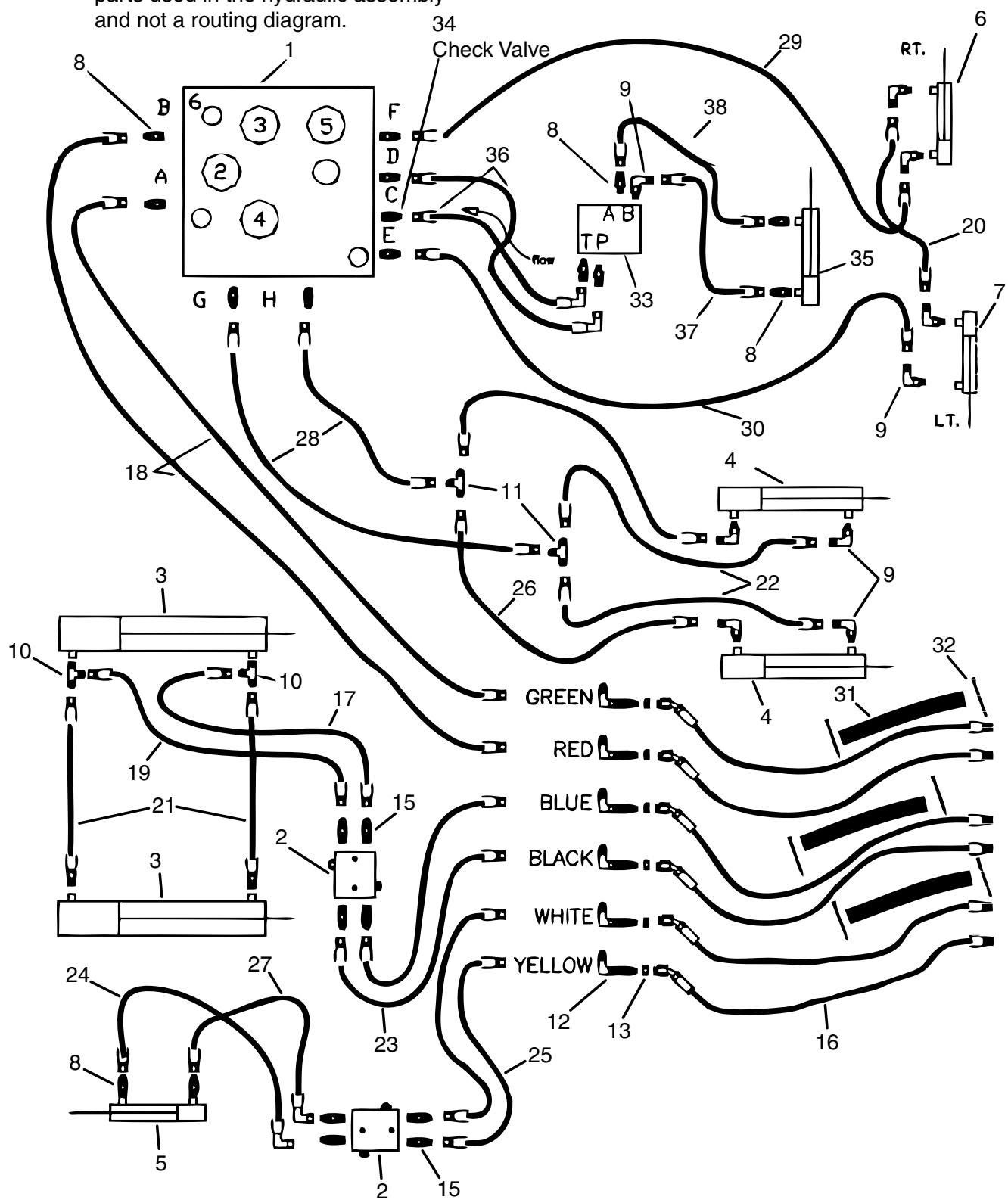


## 12SR Hydraulic Hose Schematic - 2004 to 2013

<b>Item</b>	<b>Part No.</b>	<b>Description</b>	<b>Qty</b>
1	10222	Manifold Valve .....	1
	K44257	Manifold Block - D3403C SI	
	K44258	Cavity Plug - #XBOA-XXN - <b>PORT 2</b>	
	K44259	Sequence Valve - #SCEA-LAN - <b>PORT 3</b>	
	K44260	Counterbalance Valve - #CBEA-LHN - <b>PORT 4</b>	
	K44261	Sequence Valve - #RSFC-LAN - <b>PORT 5</b>	
	K44262	Check Valve - #CXCD-XZN - <b>PORT 6</b>	
2	11723	Cushion Valve - 2000 PSI .....	2
3	10033	Bed Cylinder .....	2
4	10032	Loader Cylinder.....	2
5	12302	Hitch Cylinder 2004.....	1
6	10035	RH Alignment Cylinder.....	1
7	10034	LH Alignment Cylinder .....	1
8	10178	08 JIC To 08 ORB Straight Port Adapter (C15330).....	12
9	10180	90 Degree Elbow ORB Adapter .....	10
10	10187	08 ORB To 08 JIC To 08 JIC Run Tee .....	2
11	10186	08 JIC To 08 JIC To 08 JIC Union Tee.....	2
12	10181	08 90 Degree Bulkhead Fitting .....	6
13	10171	08 Bulkhead Fitting Jam Nut.....	6
14	*****		
15	10177	08 JIC To 12 ORB Straight Male Adapter .....	8
16	10168	Hose - 1/2 x 252 Lg - #8 3/4-16 FJIC 45 Degree Swivel x 1/2-14 MNPT .....	6
17	10083	Hose - 1/2 x 102 Lg - #8 3/4-16 FJIC Swivel .....	1
18	10086	Hose - 1/2 x 201 Lg - #8 3/4-16 FJIC Swivel .....	2
19	10675	Hose - 1/2 x 85 Lg - #8 3/4-16 FJIC Swivel .....	1
20	10865	Hose - 1/2 x 61 Lg - #8 3/4-16 FJIC Swivel .....	3
21	10085	Hose - 1/2 x 57 Lg - #8 3/4-16 FJIC Swivel x #8 3/4-16 MORB.....	2
22	10866	Hose - 1/2 x 80 Lg - #8 3/4-16 FJIC Swivel .....	2
23	*****		
24	10081	Hose - 1/2 x 42 Lg - #8 3/4-16 FJIC Swivel x #8 3/4-16 FJIC 90 Degree Swivel.....	1
25	10329	Hose - 1/2 x 40 Lg - #8 3/4-16 FJIC Swivel .....	2
26	10868	Hose - 1/2 x 88 Lg - #8 3/4-16 FJIC Swivel .....	2
27	10691	Hose - 1/2 x 36 Lg - #8 3/4-16 FJIC Swivel x #8 3/4-16 FJIC 90 Degree Swivel.....	1
28	10869	Hose - 1/2 x 17 Lg - #8 3/4-16 FJIC Swivel .....	2
29	10890	Hose - 1/2 x 111 Lg - #8 3/4-16 FJIC Swivel .....	1
30	10879	Hose - 1/2 x 114 Lg - #8 3/4-16 FJIC Swivel .....	1
31	10185	Hose Sheathing - 3 ft .....	3
32	10080	Zip-Tie - 11 Lg.....	6
33	10397	Grab Hook Valve .....	1
34	10854	Check Valve Adapter 5 PSI .....	1
35	12166	Grab Hook Cylinder 03 .....	1
36	10874	Hose - 1/2 x 48 Lg - #8 3/4-16 FJIC Swivel x #8 3/4-16 FJIC 90 Degree Swivel.....	1
37	12244	Hose - 1/2 x 51 Lg - #8 3/4-16 FJIC Swivel x #8 3/4-16 FJIC 90 Degree Swivel.....	1
38	10863	Hose - 1/2 x 35 Lg - #8 3/4-16 FJIC Swivel .....	2
39	C-817	Male Tip - 1/2 FNPT (Not Shown).....	6

**HD4SR and 12SR**  
**12SR Hydraulic Hose Schematic - 2001 to 2003**

Note: This is a representation of the parts used in the hydraulic assembly and not a routing diagram.

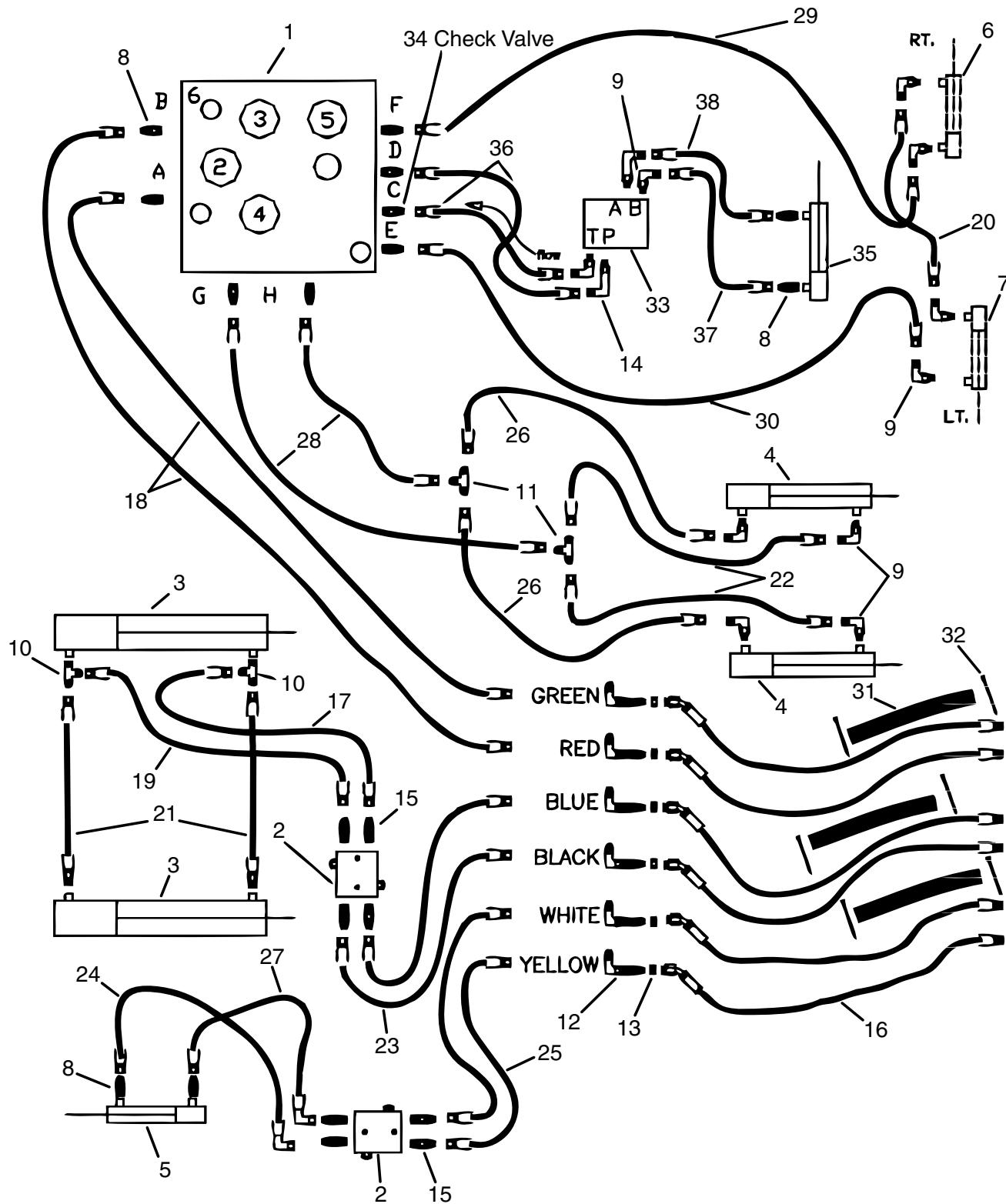


## 12SR Hydraulic Hose Schematic - 2001 to 2003

Item	Part No.	Description	Qty
1	10222 K44257 K44258 K44259 K44260 K44261 K44262	Manifold Valve ..... Manifold Block - D3403C SI Cavity Plug - #XBOA-XXN - <b>PORT 2</b> Sequence Valve - #SCEA-LAN - <b>PORT 3</b> Counterbalance Valve - #CBEA-LHN - <b>PORT 4</b> Sequence Valve - #RSFC-LAN - <b>PORT 5</b> Check Valve - #CXCD-XZN - <b>PORT 6</b>	1
2	11723 10328	2000 PSI Cushion Valve Painted - 2002 to 2003 .. 2000 PSI Cushion Valve Painted - 2001 ..	2 2
3	10033	Bed Cylinder .....	2
4	10032	Loader Cylinder.....	2
5	10271	Hitch Cylinder.....	1
6	10035	RH Alignment Cylinder.....	1
7	10034	LH Alignment Cylinder .....	1
8	10178	08 JIC To 08 ORB Straight Port Adapter (C15330) ..	13
9	10180	90 Degree Elbow ORB Adapter .....	19
10	10187	08 ORB To 08 JIC To 08 JIC Run Tee ..	2
11	10186	08 JIC To 08 JIC To 08 JIC Union Tee ..	2
12	10181	08 90 Degree Bulkhead Fitting ..	6
13	10171	08 Bulkhead Fitting Jam Nut.....	6
14	* * * * *		
15	10177	08 JIC To 12 ORB Straight Male Adapter .....	8
16	10168	Hose 252" 688/108.....	6
17	10083	Hose 102" 608/608.....	1
18	10086	Hose 200" 608/608.....	2
19	10675	Hose 85" 608/608.....	1
20	10865	Hose 60.5" 608/608.....	1
21	10085	Hose 57" 608/P08 .....	2
22	10866	Hose 80" 608/608.....	2
23	10090	Hose 48" 608/608.....	2
24	10081	Hose 42" 608/668.....	1
25	10329	Hose 40" 608/608.....	2
26	10868	Hose 88" 608/608.....	2
27	10691	Hose 36" 608/668.....	1
28	10869	Hose 17" 608/608.....	2
29	10890	Hose 111" 608/608.....	1
30	10879	Hose 114" 608/608.....	1
31	10185	3' Hose Sheathing.....	3
32	10080	11" White Zip-Tie.....	6
33	10397	Grab Hook Valve .....	1
34	10854	Check Valve Adapter 5 PSI .....	1
35	12166	Grab Hook Cylinder 03 .....	1
	10036	Grab Hook Cylinder - 2001 .....	1
36	10874	Hose 48" 608/668.....	2
37	10862	Hose 608/668.....	1
38	10863	Hose 35" 608/608.....	1

## **HD4SR and 12SR 12SR Hydraulic Hose Schematic - 2000**

Note: This is a representation of the parts used in the hydraulic assembly and not a routing diagram.

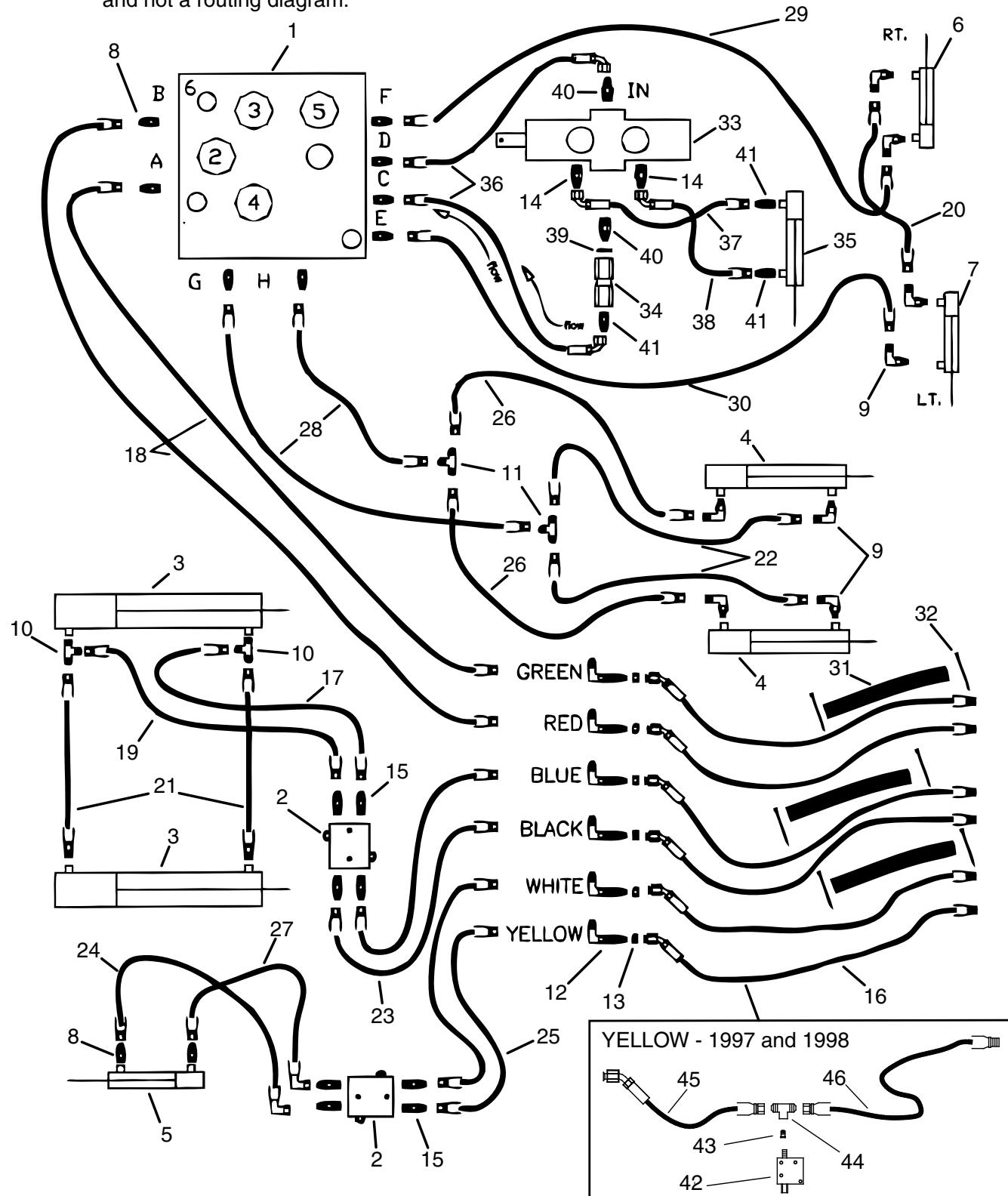


## 12SR Hydraulic Hose Schematic - 2000

Item	Part No.	Description	Qty
1	10222 K44257 K44258 K44259 K44260 K44261 K44262	Manifold Valve ..... Manifold Block - D3403C SI Cavity Plug - #XBOA-XXN - <b>PORT 2</b> Sequence Valve - #SCEA-LAN - <b>PORT 3</b> Counterbalance Valve - #CBEA-LHN - <b>PORT 4</b> Sequence Valve - #RSFC-LAN - <b>PORT 5</b> Check Valve - #CXCD-XZN - <b>PORT 6</b>	1
2	10328	2000 PSI Cushion Valve Painted .....	2
3	10033	Bed Cylinder .....	2
4	10032	Loader Cylinder.....	2
5	10271	Hitch Cylinder.....	1
6	10035	RH Alignment Cylinder.....	1
7	10034	LH Alignment Cylinder .....	1
8	10178	08 JIC To 08 ORB Straight Port Adapter (C15330).....	13
9	10180	90 Degree Elbow ORB Adapter .....	19
10	10187	08 ORB To 08 JIC To 08 JIC Run Tee .....	2
11	10186	08 JIC To 08 JIC To 08 JIC Union Tee.....	2
12	10181	08 90 Degree Bulkhead Fitting .....	6
13	10171	08 Bulkhead Fitting Jam Nut.....	6
14	10851	08 JIC To 08 ORB 90 Degree X-Long Adapter .....	2
15	10175	08 JIC To 1/2" Pipe Straight Male Adapter .....	8
16	10168	Hose 252" 688/108.....	6
17	10083	Hose 102" 608/608.....	1
18	10086	Hose 200" 608/608.....	2
19	10675	Hose 85" 608/608.....	1
20	10865	Hose - 1/2 x 61 Lg - 08 FJIC swivel ends .....	1
21	10085	Hose - 1/2 x 57 Lg - 08 FJIC swivel x 08 MORB.....	2
22	10866	Hose - 1/2 x 80 Lg - 08 FJIC swivel ends .....	2
23	10090	Hose - 1/2 x 48 Lg - 08 FJIC swivel ends .....	2
24	10081	Hose - 1/2 x 48 Lg - 08 FJIC swivel x 08 FJIC swivel 90 degree end .....	1
25	10329	Hose 40" 608/608.....	2
26	10868	Hose 88" 608/608.....	2
27	10691	Hose 36" 608/668.....	1
28	10869	Hose 17" 608/608.....	2
29	10890	Hose 111" 608/608.....	1
30	10879	Hose 114" 608/608.....	1
31	10185	3' Hose Sheathing.....	3
32	10080	11" White Zip-Tie.....	6
33	10397	Grab Hook Valve .....	1
34	10854	Check Valve Adapter 5 PSI .....	1
35	10036	Grab Hook Cylinder .....	1
36	10090	Hose 608/668.....	2
37	10862	Hose 608/668.....	1
38	10863	Hose 35" 608/608.....	1

**HD4SR and 12SR  
12SR Hydraulic Hose Schematic - 1998 to 1999**

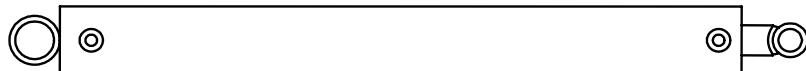
Note: This is a representation of the parts used in the hydraulic assembly and not a routing diagram.



## 12SR Hydraulic Hose Schematic - 1998 to 1999

Item	Part No.	Description	Qty
1	10222	Manifold Valve .....	1
	K44257	Manifold Block - D3403C SI	
	K44258	Cavity Plug - #XBOA-XXN - <b>PORT 2</b>	
	K44259	Sequence Valve - #SCEA-LAN - <b>PORT 3</b>	
	K44260	Counterbalance Valve - #CBEA-LHN - <b>PORT 4</b>	
	K44261	Sequence Valve - #RSFC-LAN - <b>PORT 5</b>	
	K44262	Check Valve - #CXCD-XZN - <b>PORT 6</b>	
2	10328	2000 PSI Cushion Valve Painted .....	2
3	10033	Bed Cylinder .....	2
4	10032	Loader Cylinder.....	2
5	10271	Hitch Cylinder.....	1
6	10035	RH Alignment Cylinder.....	1
7	10034	LH Alignment Cylinder .....	1
8	10178	08 JIC To 08 ORB Straight Port Adapter (C15330).....	13
9	10180	90 Degree Elbow ORB Adapter .....	19
10	10187	08 ORB To 08 JIC To 08 JIC Run Tee .....	2
11	10186	08 JIC To 08 JIC To 08 JIC Union Tee.....	2
12	10181	08 90 Degree Bulkhead Fitting .....	6
13	10171	08 Bulkhead Fitting Jam Nut.....	6
14	10176	08 JIC To 10 ORB Straight Port Adapter.....	2
15	10175	08 JIC To 1/2" Pipe Straight Male Adapter.....	8
16	10168	Hose 252" 688/108.....	6
17	10083	Hose 102" 608/608.....	1
18	10086	Hose 200" 608/608.....	2
19	10675	Hose 85" 608/608.....	1
20	10865	Hose - 1/2 x 61 Lg - 08 FJIC swivel ends .....	1
21	10085	Hose - 1/2 x 57 Lg - 08 FJIC swivel x 08 MORB.....	2
22	10866	Hose 80" 608/608.....	2
23	10090	Hose 48" 608/608.....	2
24	10081	Hose 42" 608/668.....	1
25	10329	Hose 40" 608/608.....	2
26	10868	Hose 88" 608/608.....	2
27	10691	Hose 36" 608/668.....	1
28	10869	Hose 17" 608/608.....	2
29	10890	Hose 111" 608/608.....	1
30	000011	Hose 111" 608/608 - Use 10879.....	1
31	10185	3' Hose Sheathing.....	3
32	10080	11" White Zip-Tie.....	6
33	10124	Grab Hook Valve .....	1
34	10189	Check Valve .....	1
35	10036	Grab Hook Cylinder .....	1
36	10213	Hose 50" 608/668.....	2
37	10864	Hose 30" 608/668.....	1
38	10899	Hose 37" 608/608.....	1
39	10007	08 British O-Ring.....	1
40	10177	08 JIC To 12 ORB Straight Port Adapter.....	2
41	10178	08 JIC To 08 ORB Straight Port Adapter (C15330).....	3
42	10190	Modified Pressure Switch (Wired) - 1997 to 1998 .....	1
43	10172	06 x 04 Bushing - 1997 to 1998 .....	1
44	10188	08 Female Branch Tee - 1997 to 1998 .....	1
45	10169	Hose 201" 608/688 - 1997 to 1998 .....	1
46	10396	Hose 69" 608/108 - 1997 to 1998 .....	1

**HD4SR and 12SR  
Cylinder Specification Sheet**



Name: Bed Cylinder      Part # 10033  
 Type: Welded              Length: 48  $\frac{3}{4}$ "  
 Bore X Stroke: 4" X 36"  
 Packing Kit # PMCK-AR-704  
 Seal Kit # 10990



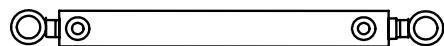
Name: Loader Cylinder      Part # 10032  
 Type: Welded              Length: 32  $\frac{7}{8}$ "  
 Bore X Stroke: 3  $\frac{1}{2}$ " X 20"  
 Packing Kit # PMCK-AR-703  
 Seal Kit # 10989



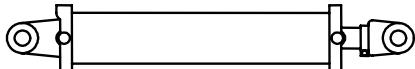
Name: Left Algnmnt Cyl.      Part # 10034  
 Type: Tie-Rod              Length: 19  $\frac{5}{8}$ "  
 Bore X Stroke: 3  $\frac{1}{4}$ " X 8"  
 Packing Kit # PMCK-AR-705  
 Seal Kit # 10991



Name: Right Algnmnt Cyl.      Part # 10035  
 Type: Tie-Rod              Length: 19  $\frac{5}{8}$ "  
 Bore X Stroke: 3  $\frac{1}{2}$ " X 8"  
 Packing Kit # PMCK-AR-706  
 Seal Kit # 10992



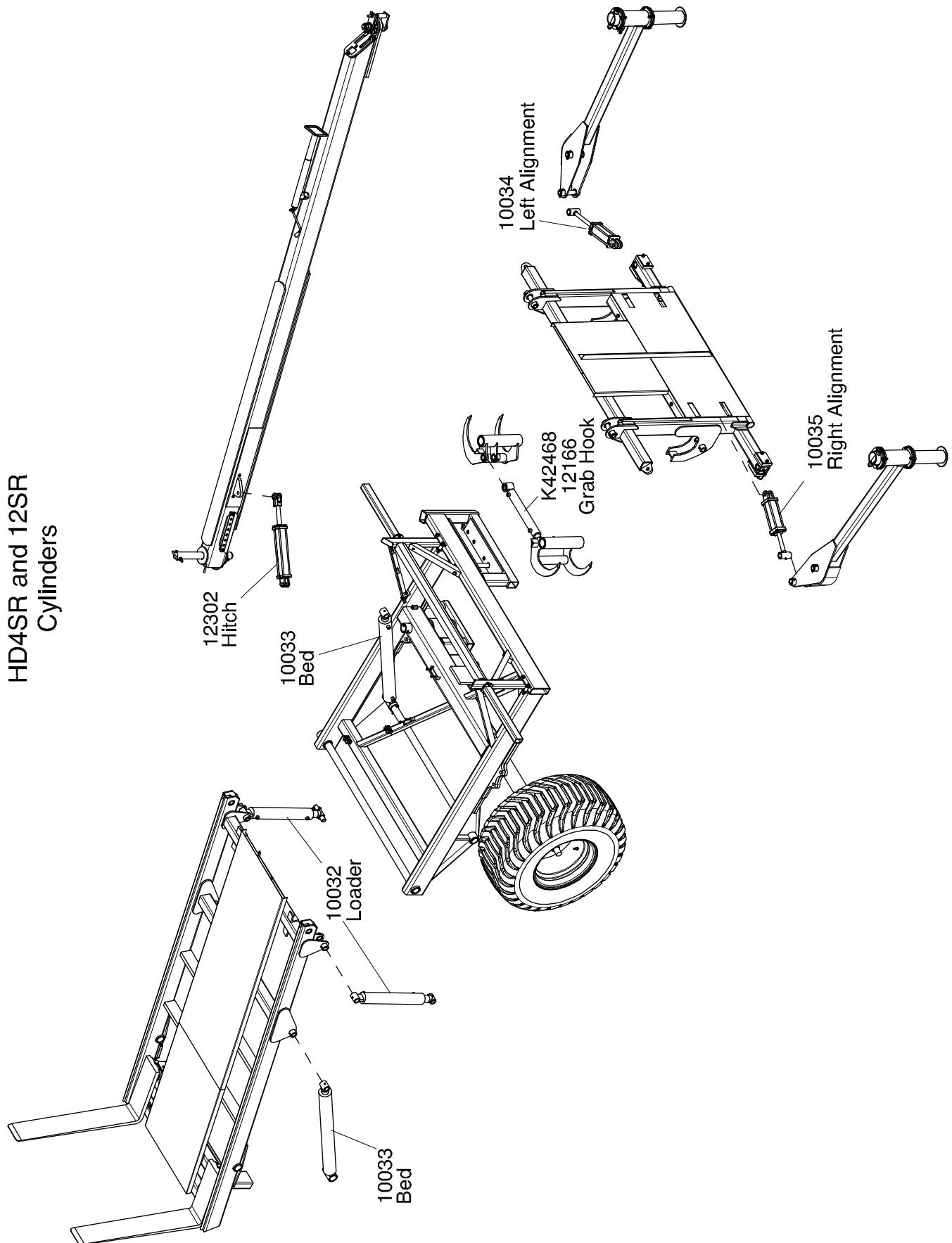
Name: Grab Hook Cyl.              Part # 12166 - 2002 to present  
 Type: Welded                      Part # 10036 - 2001  
 Bore X Stroke: 2  $\frac{1}{2}$ " X 16"      Part # 10032 - 1998 to 2000  
 Packing Kit # PMCK-AR-707      Length: 26  $\frac{3}{4}$ "  
 Seal Kit # 10993



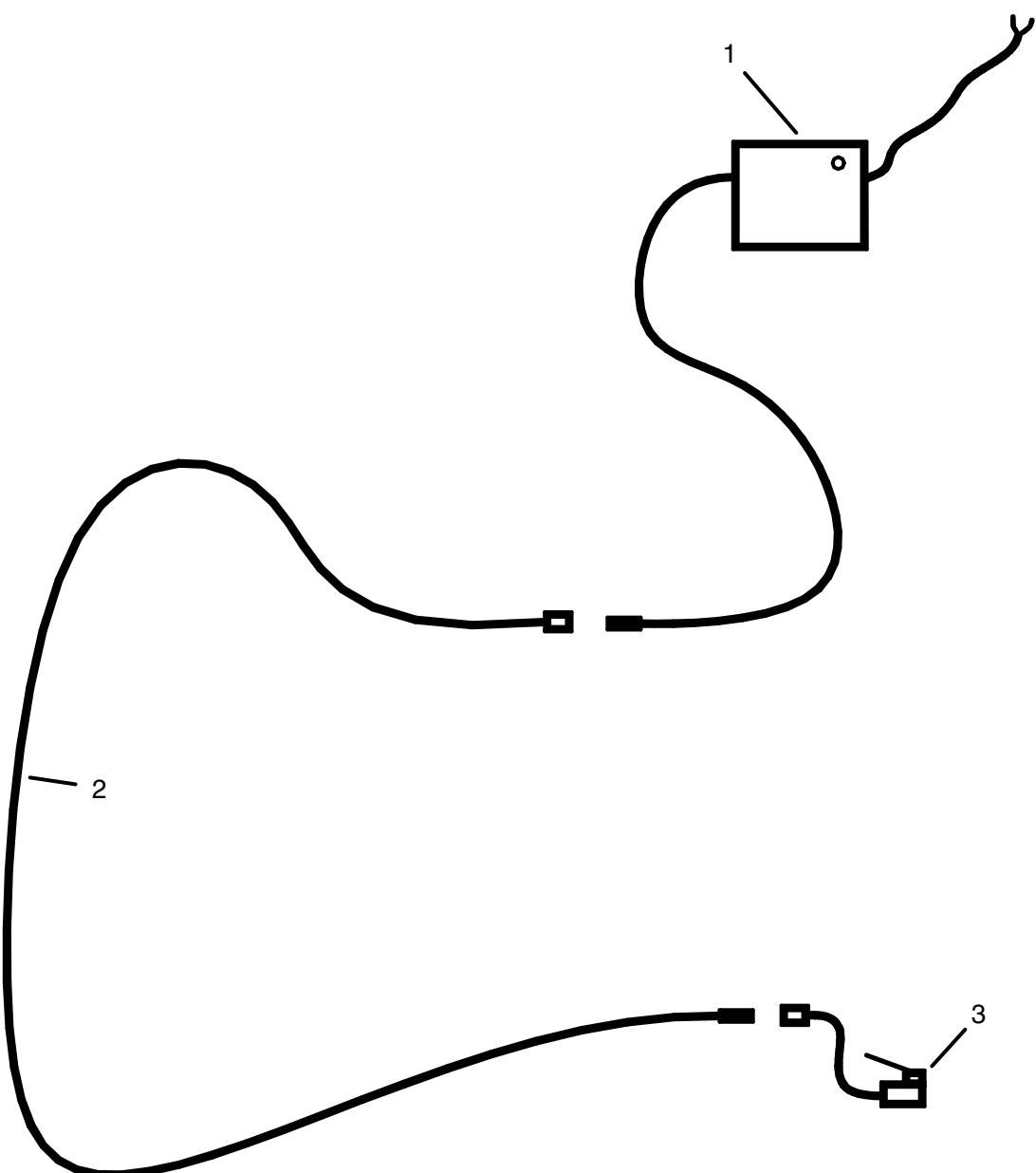
Name: Hitch Cylinder              Part # 12302 - 2004 to present  
 Type: Tie-Rod                      Part # 10271 - 1998 to 2003  
 Bore X Stroke: 3" X 14"        Length: 24  $\frac{1}{4}$ "  
 Packing Kit # 12459 / PMCK-SAE-9200 (HD4SR)  
 Seal Kit # 10988

## HD4SR and 12SR Cylinder Specification Sheet

### HD4SR and 12SR Cylinders

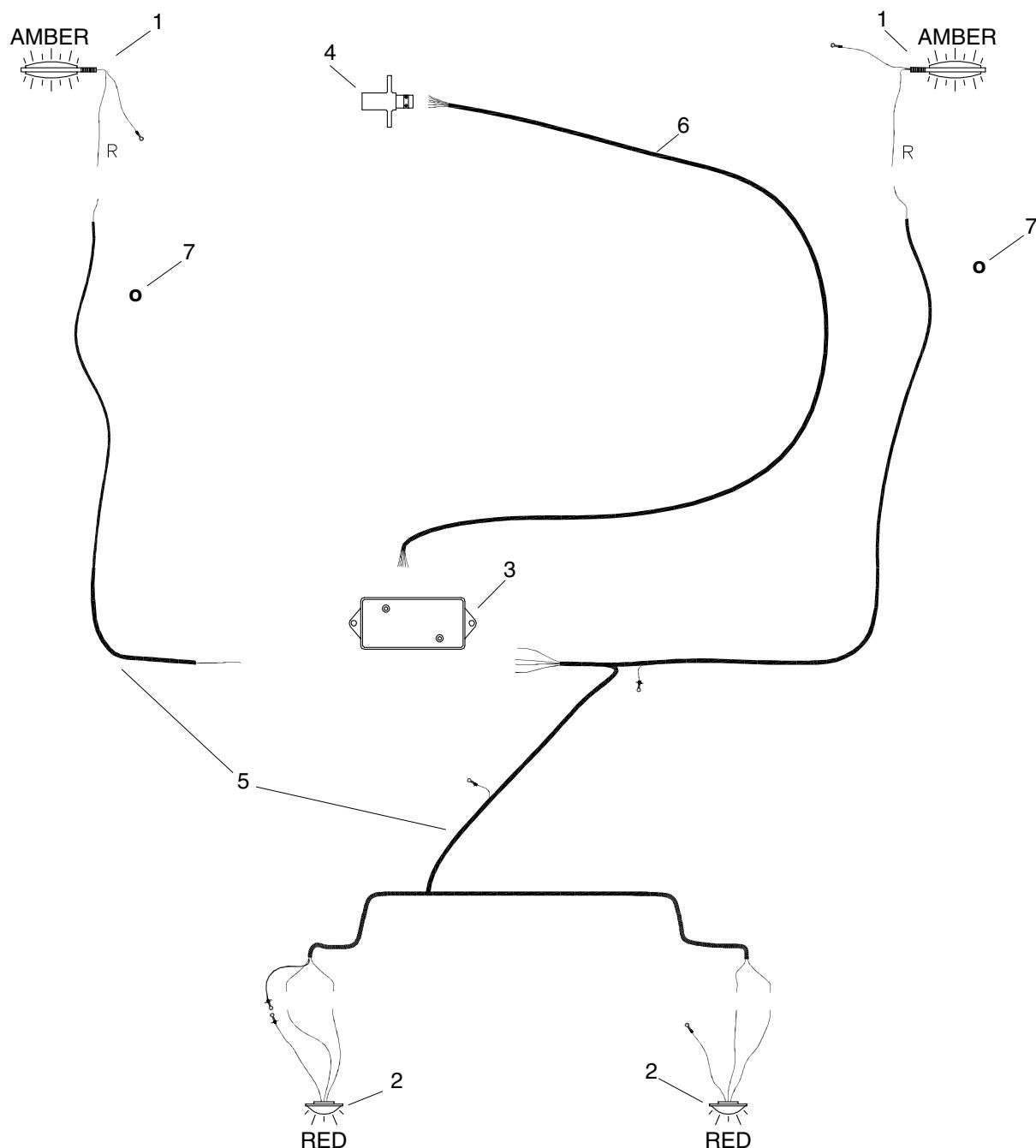


**HD4SR and 12SR  
Electrical Warning Assembly**



<b>Item</b>	<b>Part No.</b>	<b>Description</b>	<b>Qty</b>
1	K58936 10417	Warning Light Complete - 2015 to Present..... Warning Light Complete - Prior to 2015	1
2	K58934 10778	Micro Wire - 24 ft Lg - 2015 to Present..... Micro Wire - 24 ft Lg - Prior to 2015	1
3	K58933 10777	Offset Micro Switch - 2015 to Present .....	1
	K58908	Offset Micro Switch - Prior to 2015	
		Fuse - 1/10A 250V Fast Acting	

## HD4SR and 12SR Electrical Assembly



Item	Part No.	Description	Qty
1	11155	2 Way Amber Lights .....	2
2	10930	Recessed Red Lights.....	2
3	10897	7 Wire Junction Box .....	1
4	C32690	7 Pole Plug Connector .....	1
5	11545	SR Wiring Harness .....	1
6	10896	Hitch Wire Harness - 324 Lg (Includes item 4) .....	1
7	12039	Grommet.....	2

## Notes

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<p>10991 1-44      10992 1-44      10993 1-44      11123 1-17      11124 1-17      11129 1-19      11132 1-15      11137 1-23, 1-25, 1-29      11155 1-46      11545 1-46      11677 1-23, 1-25, 1-27, 1-29      11723 1-31, 1-33, 1-35, 1-37, 1-39      11740 1-5, 1-15, 1-17, 1-21      12039 1-3, 1-46      12166 1-3, 1-7, 1-9, 1-33, 1-35, 1-37, 1-39, 1-44      12174 1-9      12196 1-9      12197 1-9      12202 1-9      12205 1-9      12206 1-9      12224 1-9      12244 1-33, 1-35, 1-37      12290 1-3, 1-15      12302 1-3, 1-31, 1-33, 1-35, 1-37, 1-44      12459 1-44      12474 1-3, 1-17      12494 1-3, 1-5, 1-7, 1-9      12519 1-3, 1-5, 1-7, 1-9, 1-15      12520 1-3, 1-12, 1-13      12525 1-3, 1-13      12526 1-3, 1-13      12527 1-3, 1-12      12528 1-3, 1-12      12529 1-21      12532 1-3, 1-7, 1-9      12533 1-3, 1-7, 1-9</p> <p><b>B</b>      BW-11 1-17</p> <p><b>C</b>      C-817 1-31, 1-33, 1-35, 1-37      C15768 1-21      C32690 1-46      C33957 1-15</p> <p><b>D</b>      D-5251 1-7, 1-12, 1-15      D-5489 1-9</p> <p><b>F</b>      F-3405 1-5, 1-15, 1-17, 1-21      F-3485 1-9</p>	<p><b>K</b></p> <p>K25798 1-15, 1-17      K34987 1-3      K34990 1-3      K42389 1-7      K42390 1-7      K42393 1-7, 1-9      K42394 1-7, 1-9      K42396 1-7, 1-9      K42468 1-3, 1-7, 1-9      K42469 1-21      K42475 1-19      K42477 1-17      K42480 1-3, 1-21      K44008 1-7, 1-9      K44257 1-31, 1-33, 1-35, 1-37, 1-39, 1-43      K44258 1-31, 1-33, 1-35, 1-37, 1-39, 1-43      K44259 1-31, 1-33, 1-35, 1-37, 1-39, 1-43      K44260 1-31, 1-33, 1-35, 1-37, 1-39, 1-43      K44261 1-31, 1-33, 1-35, 1-37, 1-39, 1-43      K44262 1-31, 1-33, 1-35, 1-37, 1-39, 1-43      K44274 1-3, 1-5      K45683 1-15      K53973 1-7, 1-33, 1-35      K53980 1-7      K53981 1-7      K53987 1-7      K53993 1-7      K56756 1-31, 1-33      K56776 1-29      K56777 1-29      K58908 1-45      K58933 1-45      K58934 1-45      K58936 1-45</p> <p><b>N</b></p> <p>N16143 1-33, 1-35      N29358 1-33, 1-35      N34475 1-15      N37876 1-33, 1-35</p> <p><b>P</b></p> <p>P61D20 1-21      PMCK-AR-703 1-44      PMCK-AR-704 1-44      PMCK-AR-705 1-44      PMCK-AR-706 1-44      PMCK-AR-707 1-44      PMCK-SAE-9200 1-44</p>	<p><b>S</b></p> <p>S-752 1-5, 1-15, 1-21      S-1198 1-15      S-1302 1-7, 1-17      S29967 1-33, 1-35      S39391 1-21</p> <p><b>W</b></p> <p>W-471 1-15      W-477 1-11, 1-17, 1-19      W-497 1-19      W-504 1-19      W-513 1-7      W-516 1-21      W-517 1-19      W-518 1-15      W-522 1-7      W-526 1-13, 1-19      W-527 1-15      W-538 1-9, 1-11, 1-15, 1-17      W-539 1-15      W-907 1-9      W-1552 1-15      W-3328 1-27, 1-29      W-4647 1-3      W14434 1-19</p>
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