

# **HDR 1000 HEAVY DUTY ROTATOR JFB BODY PARTS MANUAL**

# **JERR-DAN®**

An Oshkosh Corporation Company

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This manual covers the following Jerr-Dan Models:

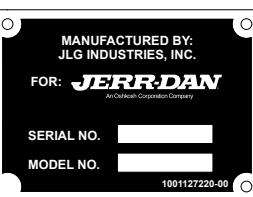
HDR1000 50 Ton Rotator

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Information contained in this manual reflects how this vehicle was built at the factory. Modifications or additions by the distributor or owner are not reflected in this manual.

This parts manual does not include service parts information for the commercial chassis (IHC, Ford, GM, etc.).  
That information is provided by the chassis manufacturer.

When ordering parts, please refer to your unit's Serial Number and Model Number. This information is be found on the aluminum tag riveted to the inside of the driver's side rear compartment of the main body.



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Manufactured under one or more of the following patents: 5,575,606; 5,672,042; 5,697,741; 5,713,714; 5,722,810; 5,782,596; 5,839,775 and 6,315,515 B1 with other Patents Pending.

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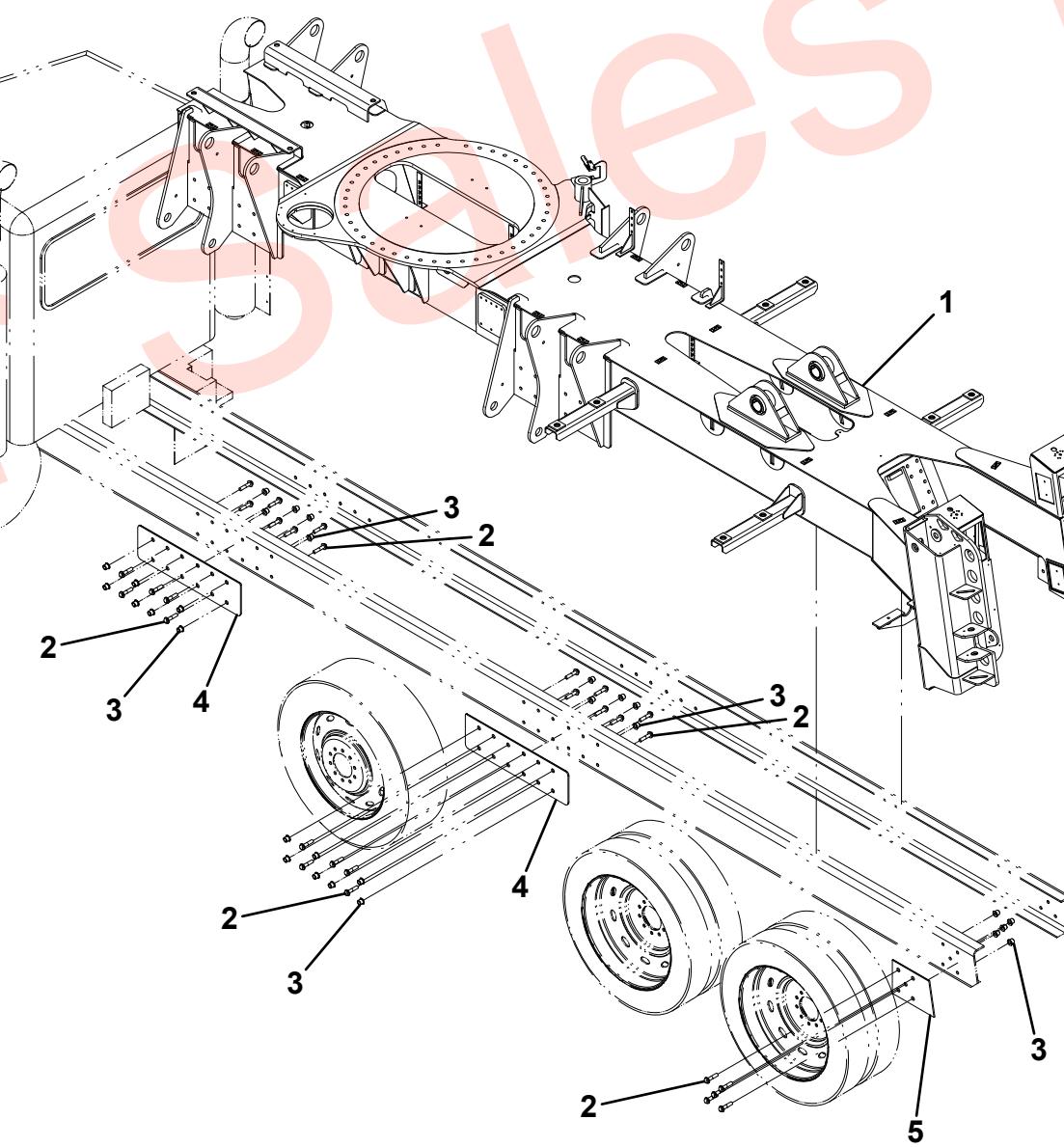
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**SUBFRAME INSTALLATION**

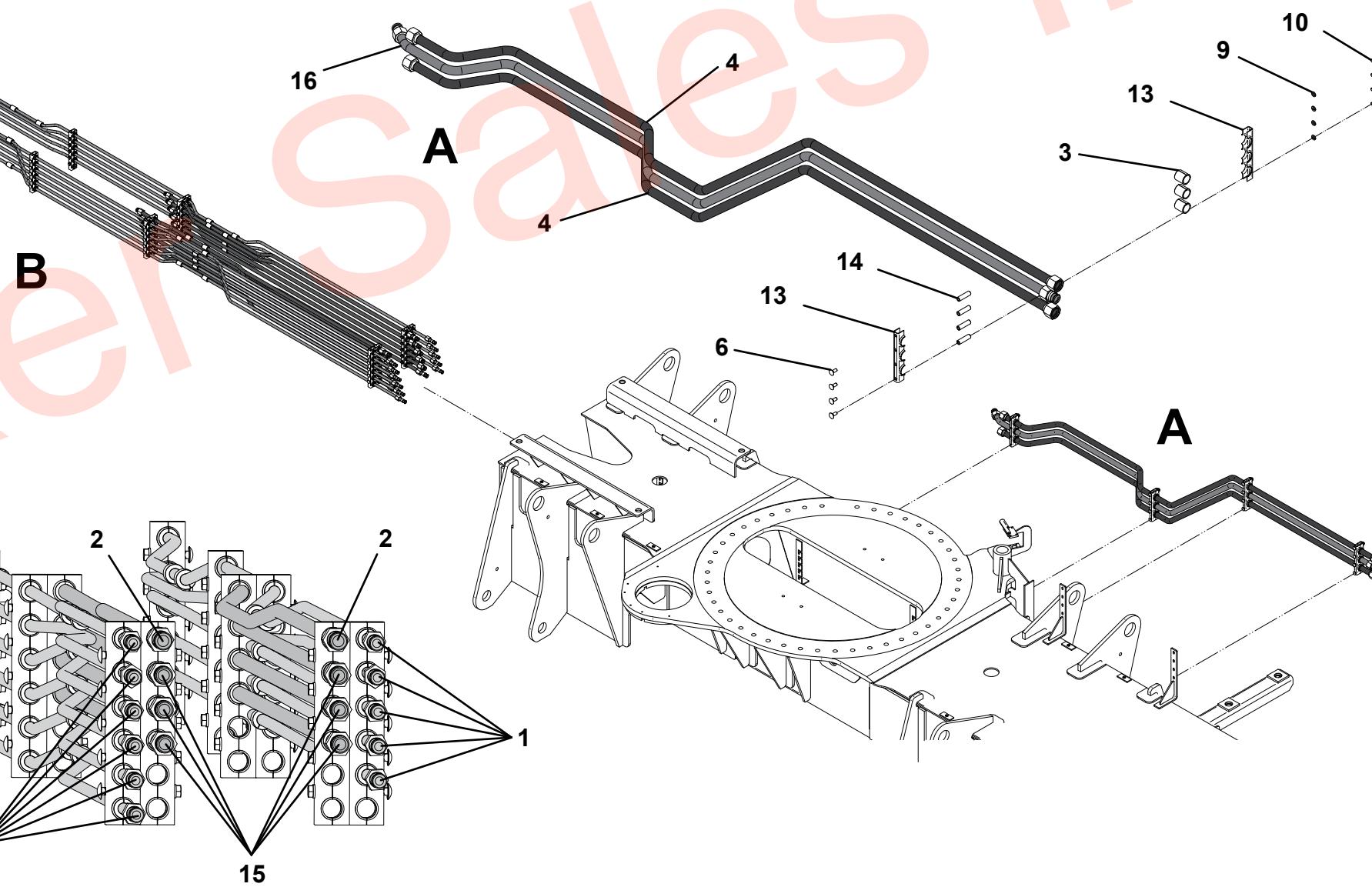
ITEM	PART NO.	DESCRIPTION	QTY
1	1001135645	Frame Weldment	1
2	7120000062	Huck Bolt, 0.75" Dia x 1.50-2.00"	58
3	7293000006	Huck Collar, 0.75	58
4	1001129777*	Shim	4
5	1001129786*	Shim	2

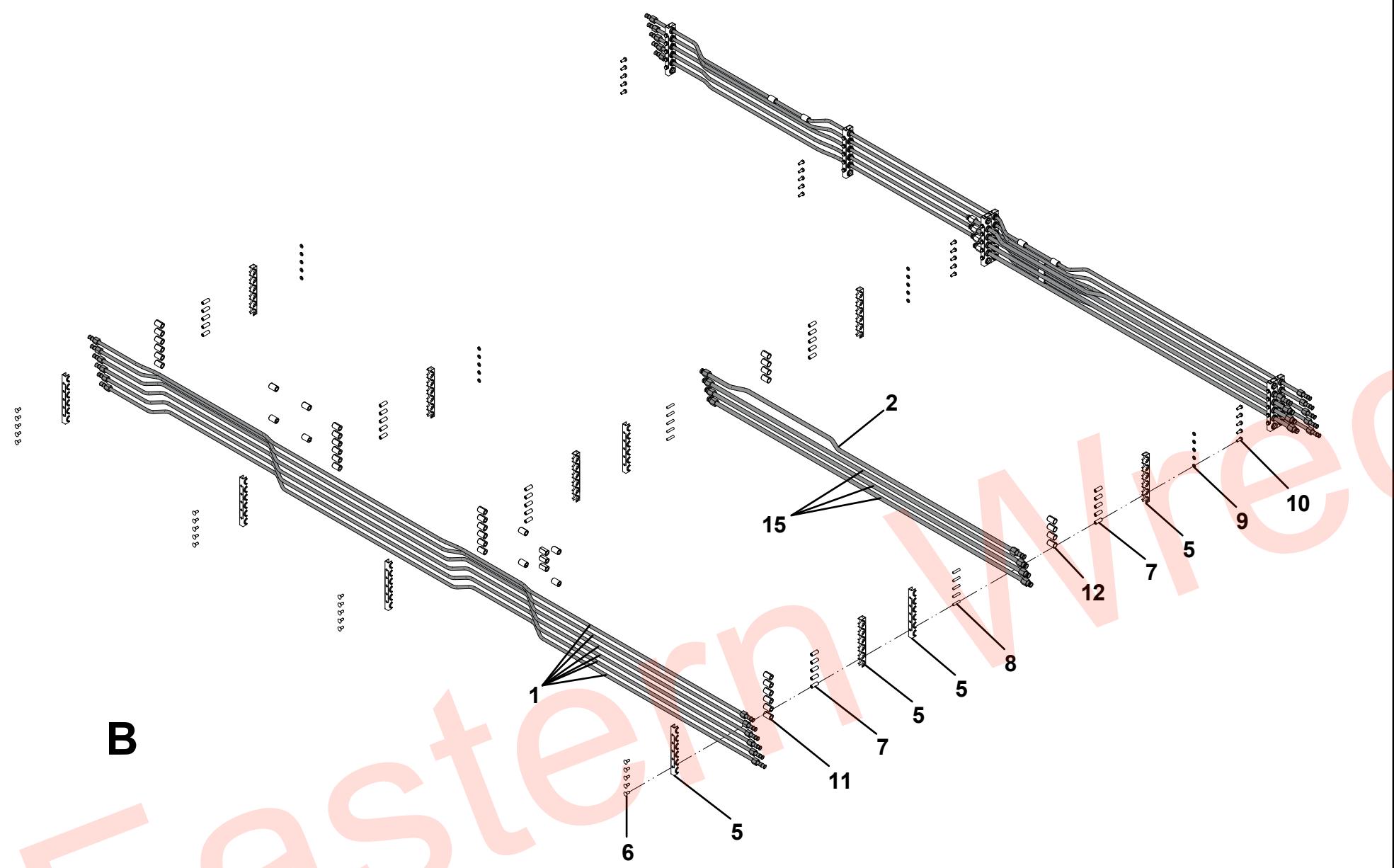
\* Also Available In Shim Kit - 1001129786

**SUBFRAME INSTALLATION**

**HYDRAULIC TUBE INSTALLATION - 9 SECTION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001134739	Pipe, Tube Assembly	11
2	1001134740	Pipe, Tube Assembly	2
3	7209000033	Bushing	12
4	1001130395	Pipe, Tube Assembly	2
5	7274000030	Clamp Assembly	12
6	7115150664	Bolt, 0.31"-18NC x 0.75"	52
7	7661000022	Stacking Nut	60
8	7007000036	Thread Adapter	20
9	7950150000	Lockwasher, 0.31" ID	56
10	7115150650	Capscrew, 0.31"-18NC x 0.75"	56
11	7209000023	Bushing	62
12	7209000024	Bushing	16
13	7274000088	Clamp Assembly	4
14	7661000027	Stacking Nut	16
15	1001133571	Pipe, Tube Assembly	6
16	1001158142	Pipe, Tube Assembly	1

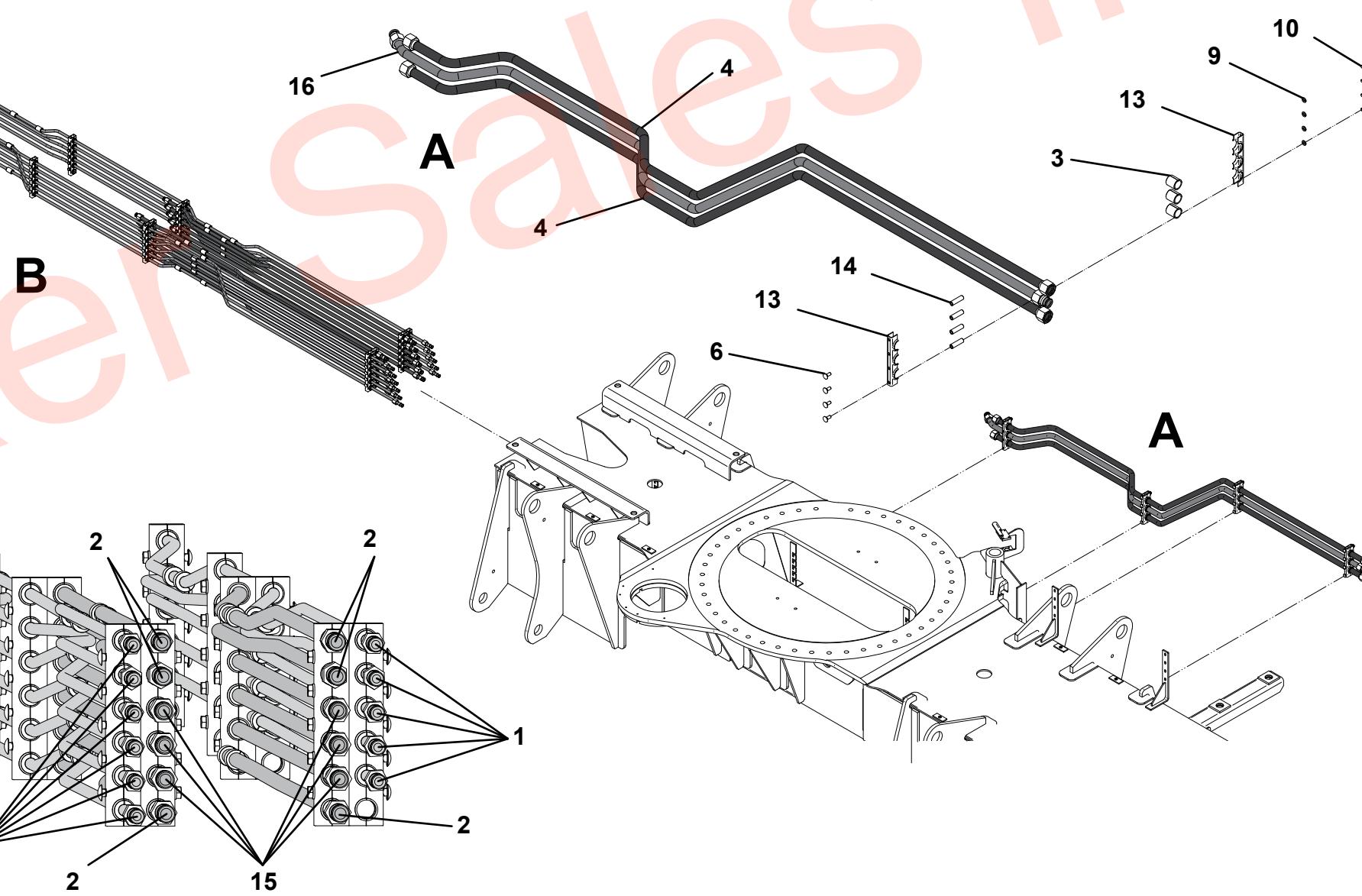
**HYDRAULIC TUBE INSTALLATION - 9 SECTION**

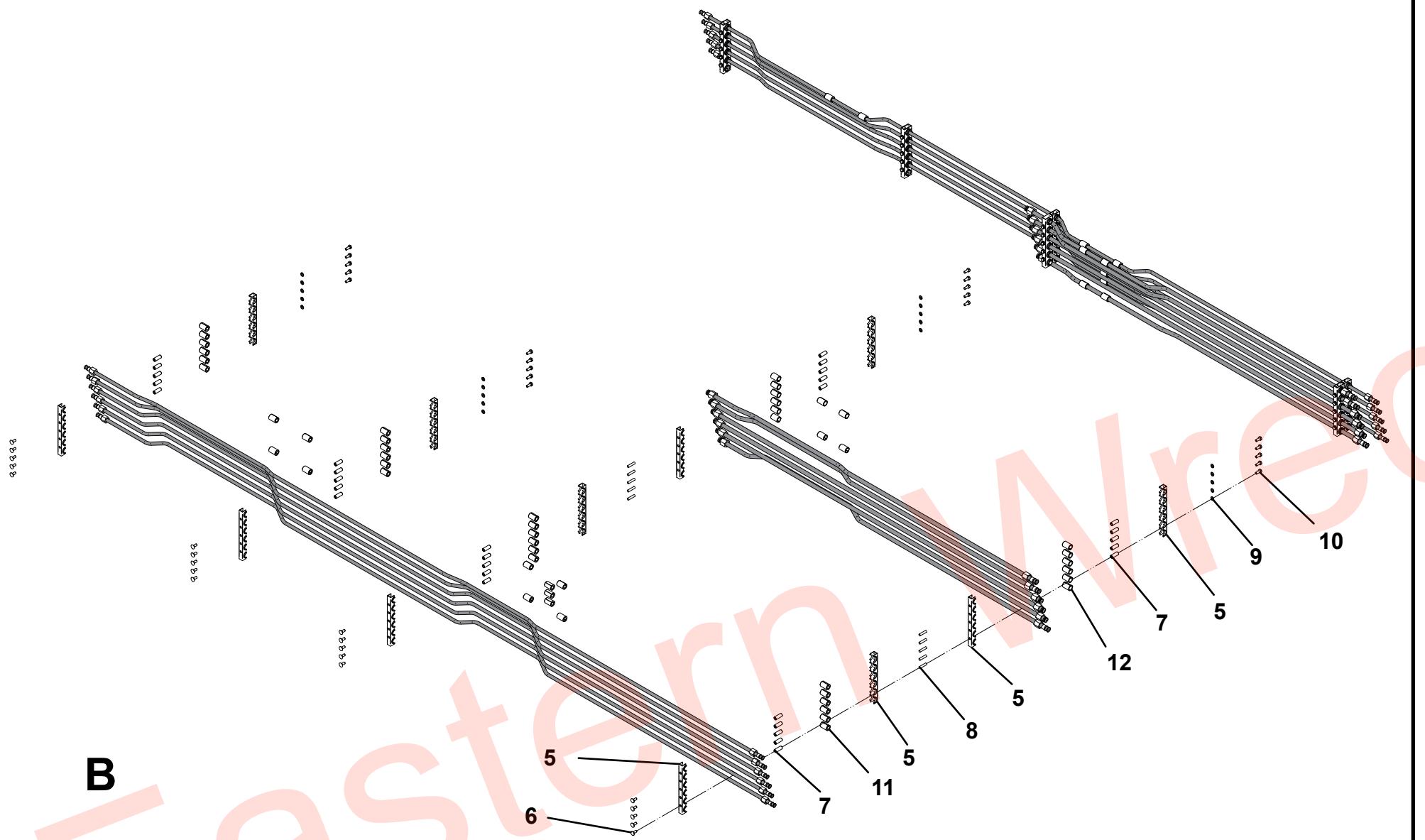
**HYDRAULIC TUBE INSTALLATION - 9 SECTION**

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**HYDRAULIC TUBE INSTALLATION - 11 SECTION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001134739	Pipe, Tube Assembly	11
2	1001134740	Pipe, Tube Assembly	6
3	7209000033	Bushing	12
4	1001130395	Pipe, Tube Assembly	2
5	7274000030	Clamp Assembly	12
6	7115150664	Bolt, 0.31"-18NC x 0.75"	52
7	7661000022	Stacking Nut	60
8	7007000036	Thread Adapter	20
9	7950150000	Lockwasher, 0.31" ID	56
10	7115150650	Capscrew, 0.31"-18NC x 0.75"	56
11	7209000023	Bushing	62
12	7209000024	Bushing	32
13	7274000088	Clamp Assembly	4
14	7661000027	Stacking Nut	16
15	1001133571	Pipe, Tube Assembly	6
16	1001158142	Pipe, Tube Assembly	1

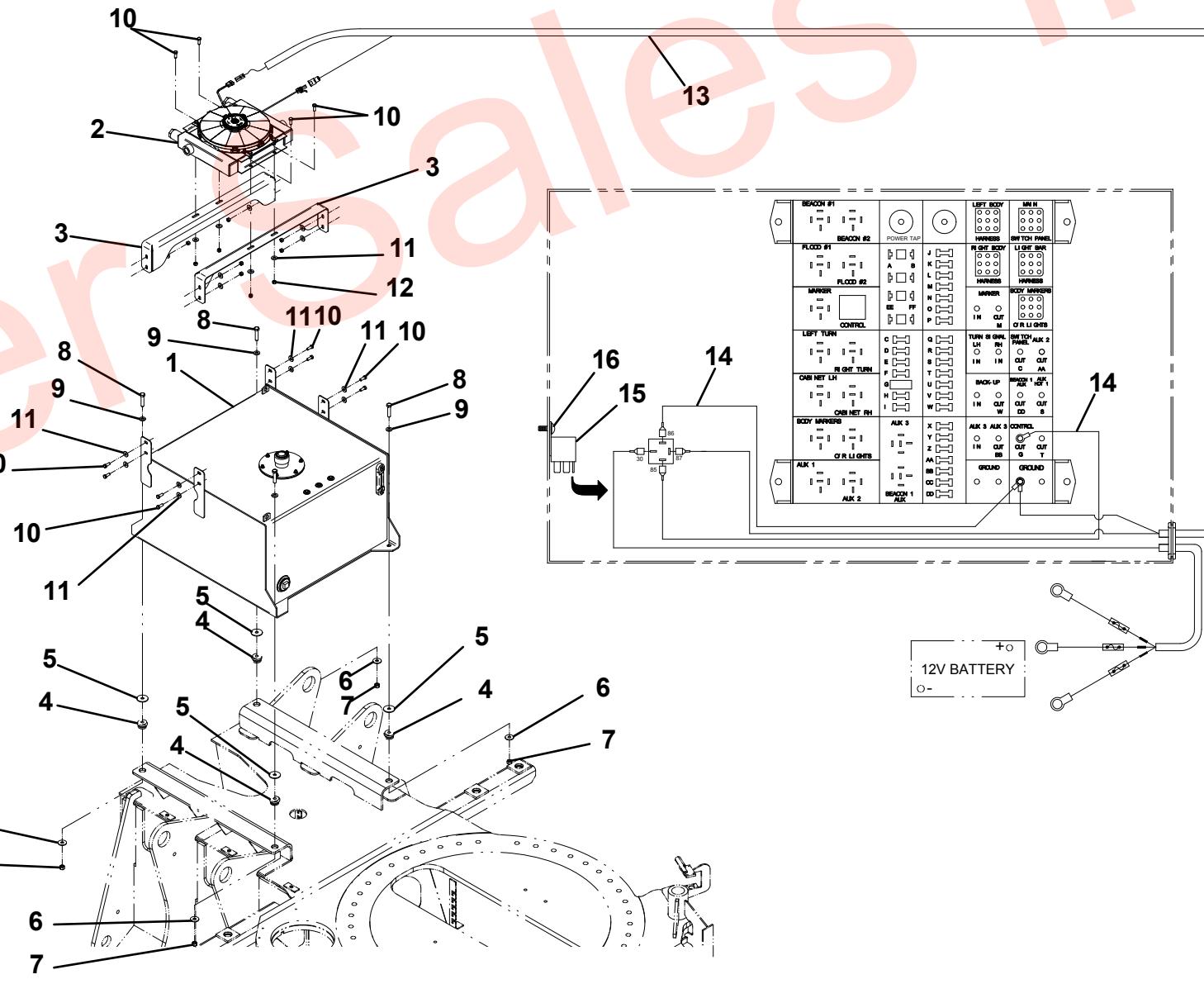
**HYDRAULIC TUBE INSTALLATION - 11 SECTION**

**HYDRAULIC TUBE INSTALLATION - 11 SECTION**

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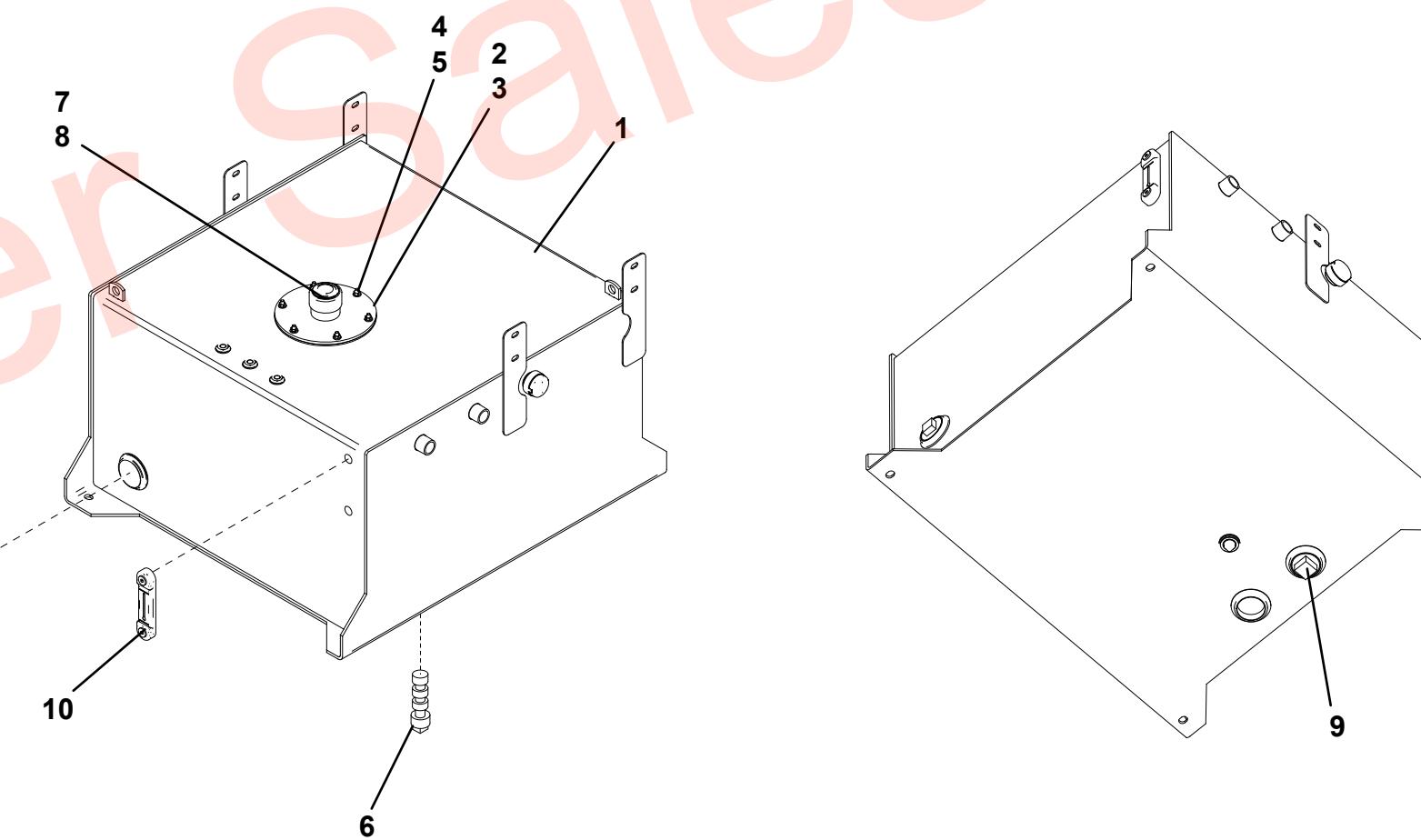
**HYDRAULIC TANK INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001127996	Tank, Hydraulic	1
2	1001127315	Radiator, Remote Oil Cooler - NPT	1
3	1001151763	Radiator, Remote Oil Cooler - O-Ring	1
4	7663000006	Mount, Hydraulic Oil Cooler	2
5	7949000015	Mount, Center Bonded	4
6	7949000016	Washer, Head	4
7	7949000016	Washer, Tail	4
8	7660182601	Locknut, 0.50"-13NC	4
9	7115181850	Capscrew, 0.50"-13NC x 2.25"	4
10	7950180141	Flatwasher, 0.50" ID	4
11	7115160850	Capscrew, 0.38"-16NC x 1.00"	12
12	7950160161	Flatwasher, 0.38" ID	20
13	7660162601	Locknut, 0.38"-16NC	12
14	1001144068	Harness	1
15	1001144012	Harness	2
16	7740000003	Relay	1
17	7790100856	Screw, Self-Tapping, #10 x 0.50"	1

**HYDRAULIC TANK INSTALLATION**

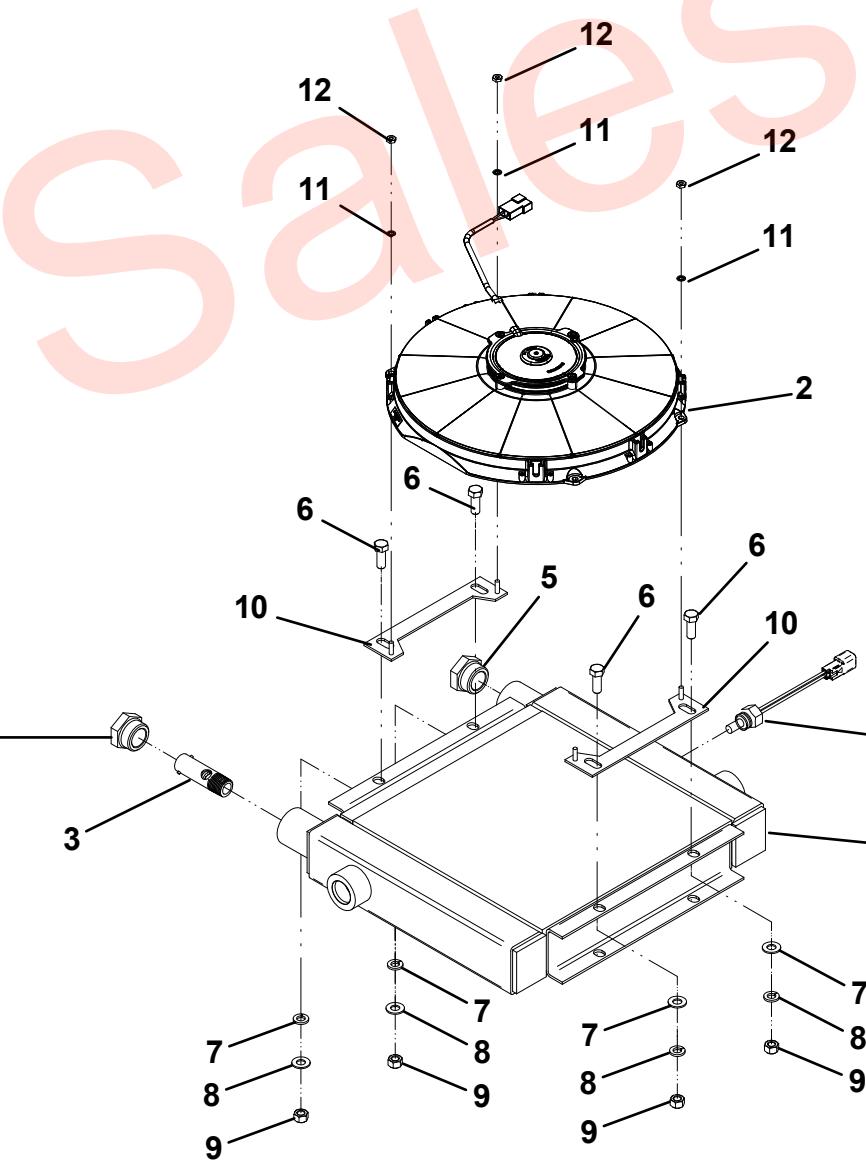
**HYDRAULIC TANK ASSEMBLY - 1001127996**

ITEM	PART NO.	DESCRIPTION	QTY
1	70050386	Tank	1
2	70050387	Gasket	1
3	70050388	Cover Assembly	1
4	83304173	Washer, 0.25" ID	6
5	83304174	Nut, 0.25"	6
6	70050389	Magnetic Plug	1
7	7024445	Strainer	1
8	7024444	Vented Fill Cap	1
9	70050390	Plug	2
10	70050391	Sight Gauge	1

**HYDRAULIC TANK ASSEMBLY - 1001127996**

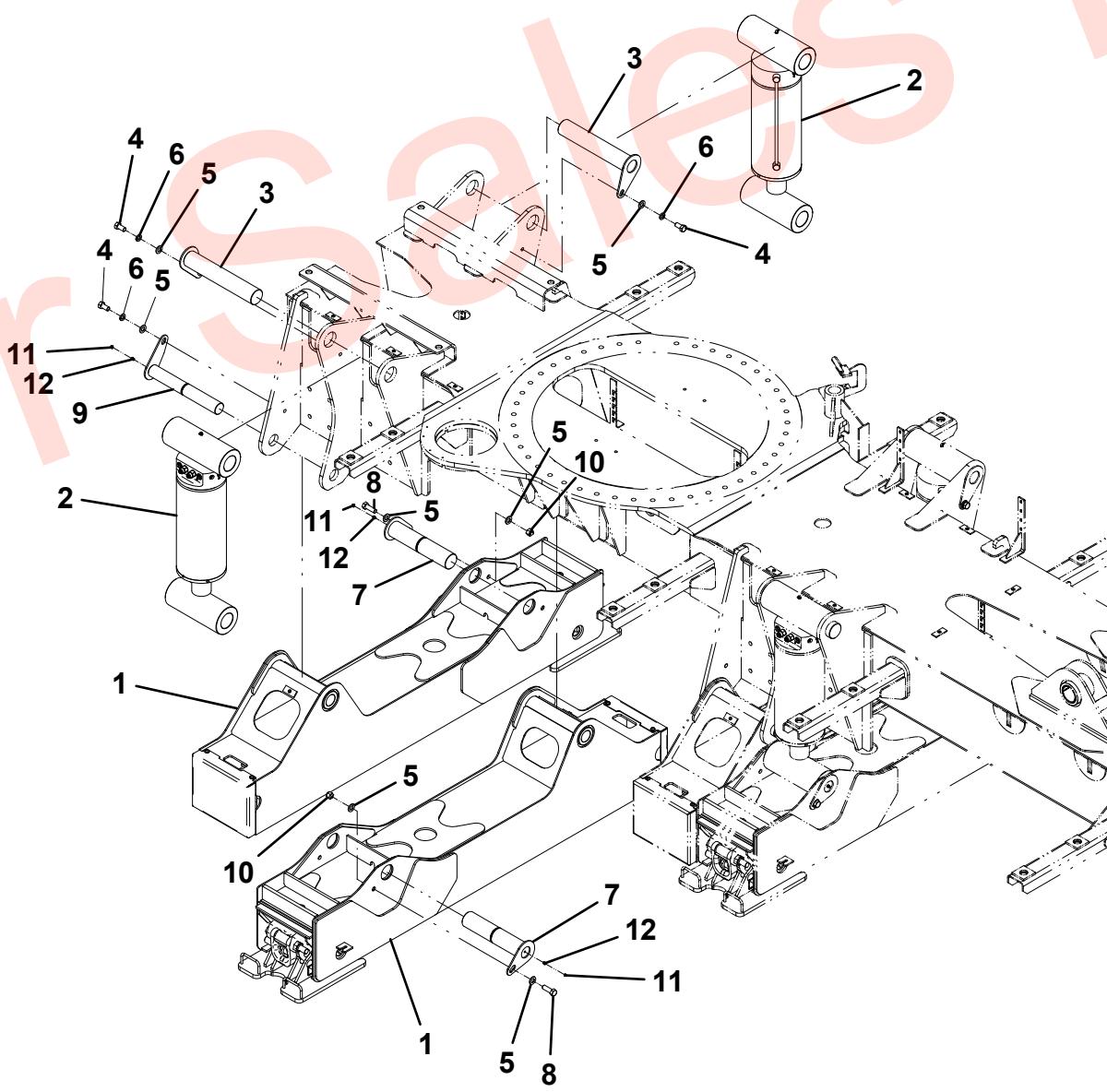
**OIL TANK COOLER - 1001151763**

ITEM	PART NO.	DESCRIPTION	QTY
1	70050273	Core, Cooler - NPT	1
	70050275	Core, Cooler - O-Ring	1
2	70050276	Fan	1
3	70050277	Valve, Bypass Check	1
4	70050274	Switch, Temperature - NPT	1
	70050278	Switch, Temperature - O-Ring	1
5	70050280	Plug	2
6	7115160850	Capscrew, 0.38"-16NC x 1.00"	4
7	7950160000	Lockwasher, 0.38" ID	4
8	7950160161	Flatwasher, 0.38" ID	4
9	7660160000	Nut, 0.38"-16NC	4
10	70050279	Bracket	2
11	70050281	Lockwasher, #10 ID	4
12	70050282	Locknut, #10	4

**OIL TANK COOLER - 1001151763**

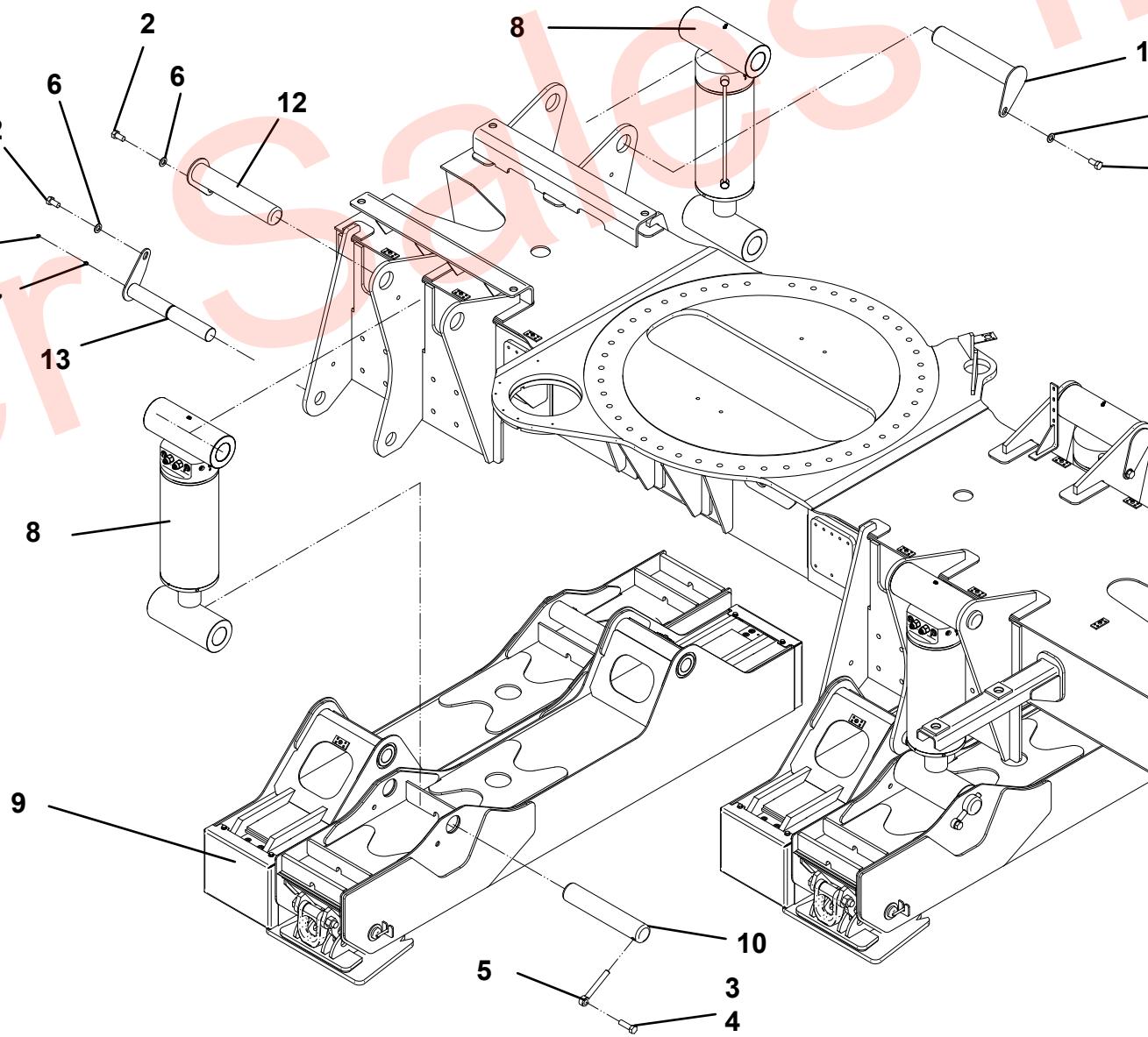
**S100 OUTRIGGER/STABILIZER INSTALLATION - 1001129409 - STANDARD**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001129405	Stabilizer Assembly	4
2	1001127311	Outrigger/Stabilizer Lift Cylinder Assembly	4
3	3691000227	Pin	4
4	0682212	Capscrew, 0.75"-10NC x 1.50"	8
5	7950220141	Flatwasher, 0.75" ID	16
6	7950220000	Lockwasher, 0.75" ID	8
7	1001129416	Pin	4
8	7118221850	Capscrew, 0.75"-10NC x 2.25"	4
9	3691000228	Pin	4
10	7660222601	Locknut, 0.75"-10NC	4
11	7253000002	Cap, Grease Fitting	8
12	7440000000	Grease Fitting	8

**S100 OUTRIGGER/STABILIZER INSTALLATION - 1001129409 - STANDARD**

**S130 OUTRIGGER/STABILIZER INSTALLATION - 1001179155 - EXTENDED**

ITEM	PART NO.	DESCRIPTION	QTY
1	100011	Loctite	A/R
2	682212	Bolt, 0.75"-10 X 1.50"	8
3	682220	Bolt, 0.75"-10 X 2.50"	4
4	3272201	Nut, 0.75"-10	4
5	3841287	Keeper Rod	4
6	4712200	Washer, 0.75" ID	8
7	88671001	Grease Fitting	4
8	1001127311	Cylinder	4
9	1001179131	Stabilizer - Extended	4
10	1001179153	Pin	4
11	7253000002	Grease Fitting Cap	4
12	3691000227	Pin	4
13	3691000228	Pin	4

**S130 OUTRIGGER/STABILIZER INSTALLATION - 1001179155 - EXTENDED**

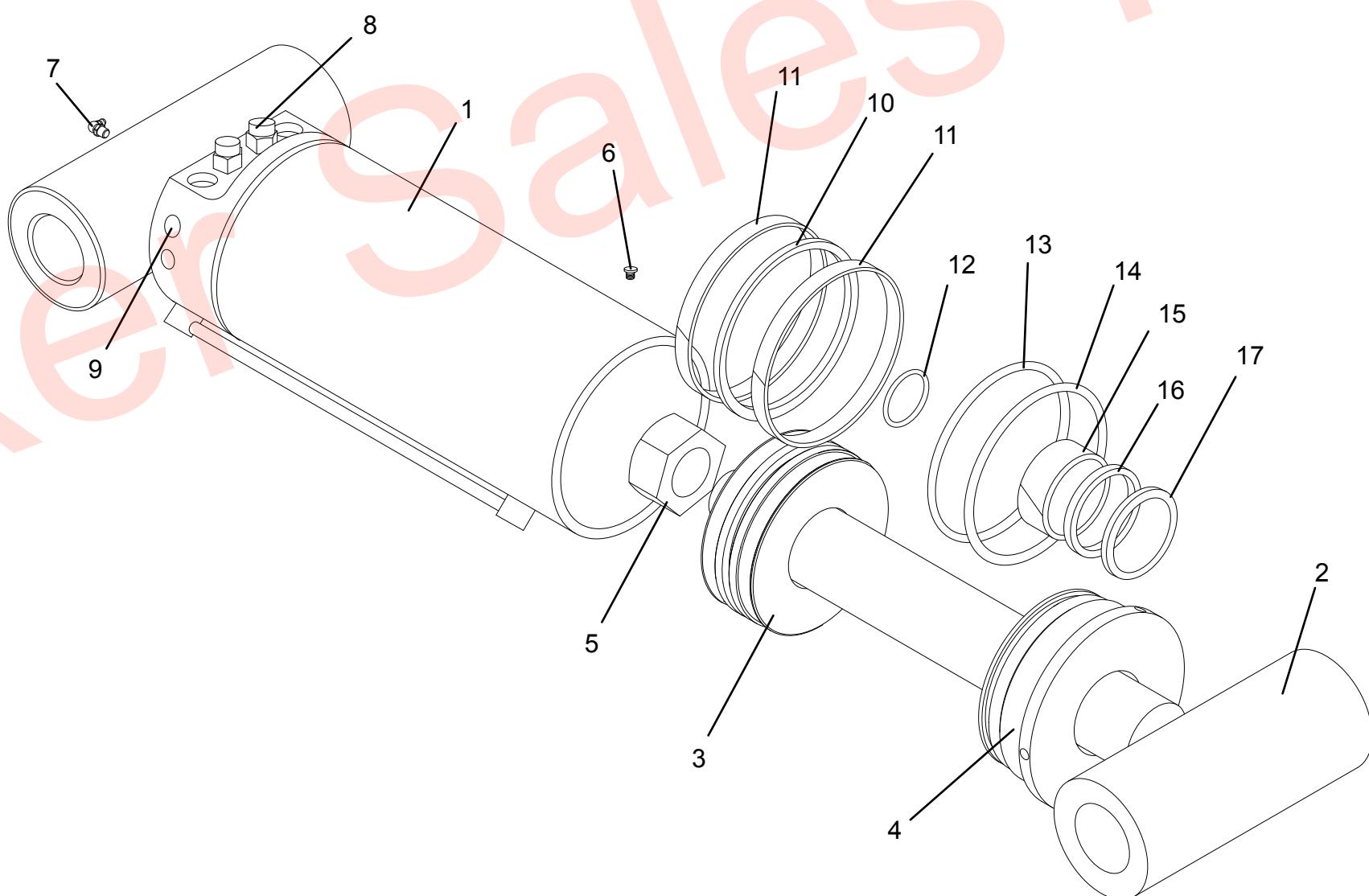
**OUTRIGGER/STABILIZER LIFT CYLINDER - 1001127311**

ITEM	PART NO.	DESCRIPTION	QTY
1	70050424	Barrel Assembly	1
2	70050425	Rod Assembly	1
3	70050430^	Piston	1
4	70050435*	Rod Bearing	1
5	90022234	Locknut, 2.25"-12UNF	1
6	7029760	Locking Screw	1
7	70022603	Grease Fitting	1
8	70050428	Counter Balance Valve	2
9	70022067	Steel SAE O-Ring Plug #4	4
10	70050432^#	Rectangular Piston Seal	1
11	70050434^#	Wear Ring, Piston	2
12	70050433^#	O-Ring	1
13	70050438^#	O-Ring	1
14	70050439^#	Backup Ring	1
15	70050440^#	Wear Ring	1
16	70050436^#	Rod Seal	1
17	90022282^#	Wiper	1

<sup>^</sup> Items Sold in Piston Assembly - 70050426

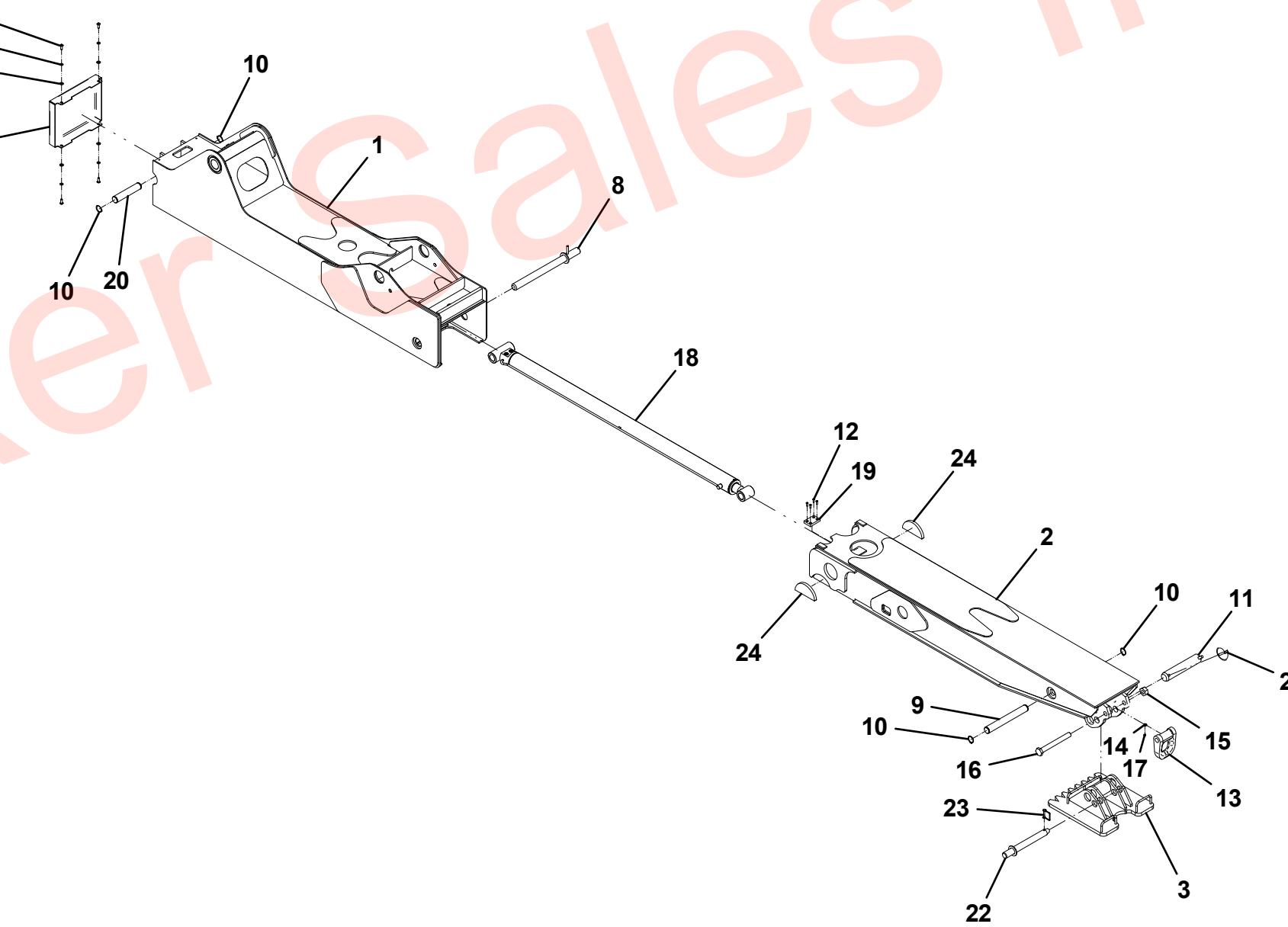
\* Items Sold in Rod Bearing Assembly - 70050427

# Items Sold in Seal Kit - 70050431

**OUTRIGGER/STABILIZER LIFT CYLINDER - 1001127311**

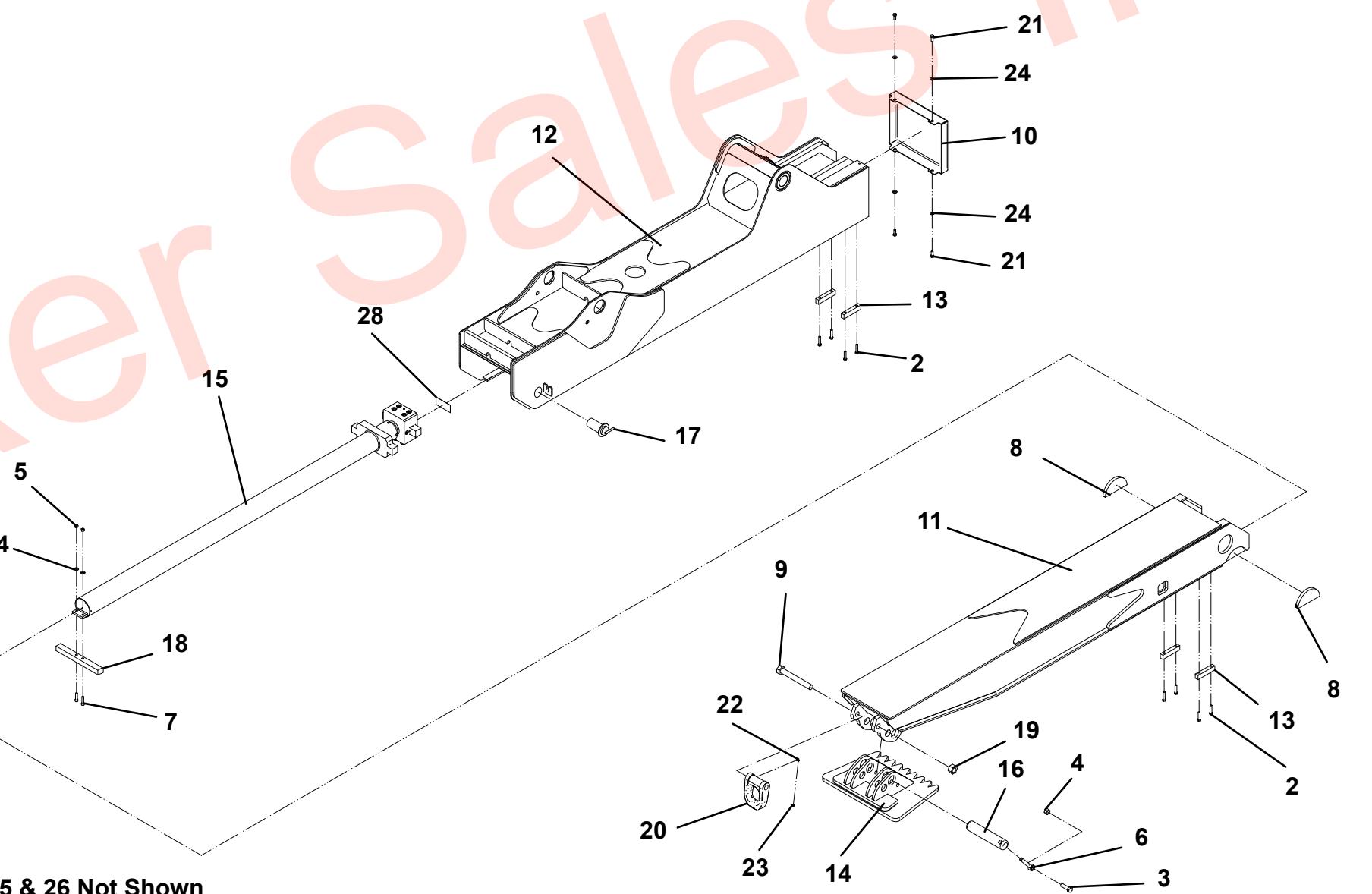
**OUTRIGGER/STABILIZER ASSEMBLY - STANDARD**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001127918	Outer Stabilizer Weldment	1
2	1001135652	Inner Stabilizer Weldment	1
3	3706000348	Stabilizer Plate Weldment	1
4	1001129498	Cover Panel	1
5	7114160818	Capscrew, 0.38"-16NC x 1.00"	4
6	7950160141	Flatwasher, 0.38" ID	4
7	7950160000	Lockwasher, 0.38" ID	4
8	3691000247	Pin	1
9	1001129406	Pin	1
10	7754000058	Retaining Ring	4
11	3691000253	Pin	1
12	7114140618	Capscrew, 0.25"-20NC x 0.75"	4
13	4754000006	D-Ring	1
14	7440030400	Grease Fitting	1
15	7660262600	Locknut, 1.00"-8NC	1
16	1001154786	Capscrew, 1.00"-8NC x 9.00"	1
17	7253000002	Cap, Grease Fitting	1
18	1001127312	Outrigger/Stabilizer Extension Cylinder	1
19	4679000243	Pad	1
20	4691000489	Pin	1
21	1001003803	Pin	1
22	3691000223	Pin	1
23	7691000048	Pin	1
24	1001135667	Pad, Wear	2

**OUTRIGGER/STABILIZER ASSEMBLY - STANDARD**

**OUTRIGGER/STABILIZER ASSEMBLY - EXTENDED**

ITEM	PART NO.	DESCRIPTION	QTY
1	100011	Loctite	A/R
2	641614	Screw, 0.375"-16 X 1.75"	8
3	682016	Screw, 0.625"-11 X 2.00"	1
4	3272001	Nut, 0.625"-11	1
5	3311605	Nut, 0.375"-16	2
6	3841258	Keeper	1
7	3931624	Screw, 0.375"-16 X 1.50"	2
8	1001135667	Pad	2
9	1001154786	Bolt, 1.00"-8 X 8.00"	1
10	1001178692	Panel	1
11	1001178865	Inner Stabilizer Weldment	1
12	1001178867	Outer Stabilizer Weldment	1
13	1001179003	Retainer	4
14	1001179129	Pad	1
15	1001179132	Outrigger/Stabilizer Extension Cylinder	1
16	1001179143	Pin	1
17	1001179160	Pad	1
18	1001179170	Pad	1
19	3272605001	Nut, 1.00"-8	1
20	4754000006	D-Ring	1
21	7114160850	Screw, 0.375"-16 X 1.00	4
22	7253000002	Grease Cap	1
23	7440030400	Grease Fitting	1
24	7950160143	Washer, 0.38" ID	6
25	3691000223	Pin	1
26	7691000048	Snap Pin	1
27	3020029	Grease	A/R
28	1001158844	Decal	1

**OUTRIGGER/STABILIZER ASSEMBLY - EXTENDED**

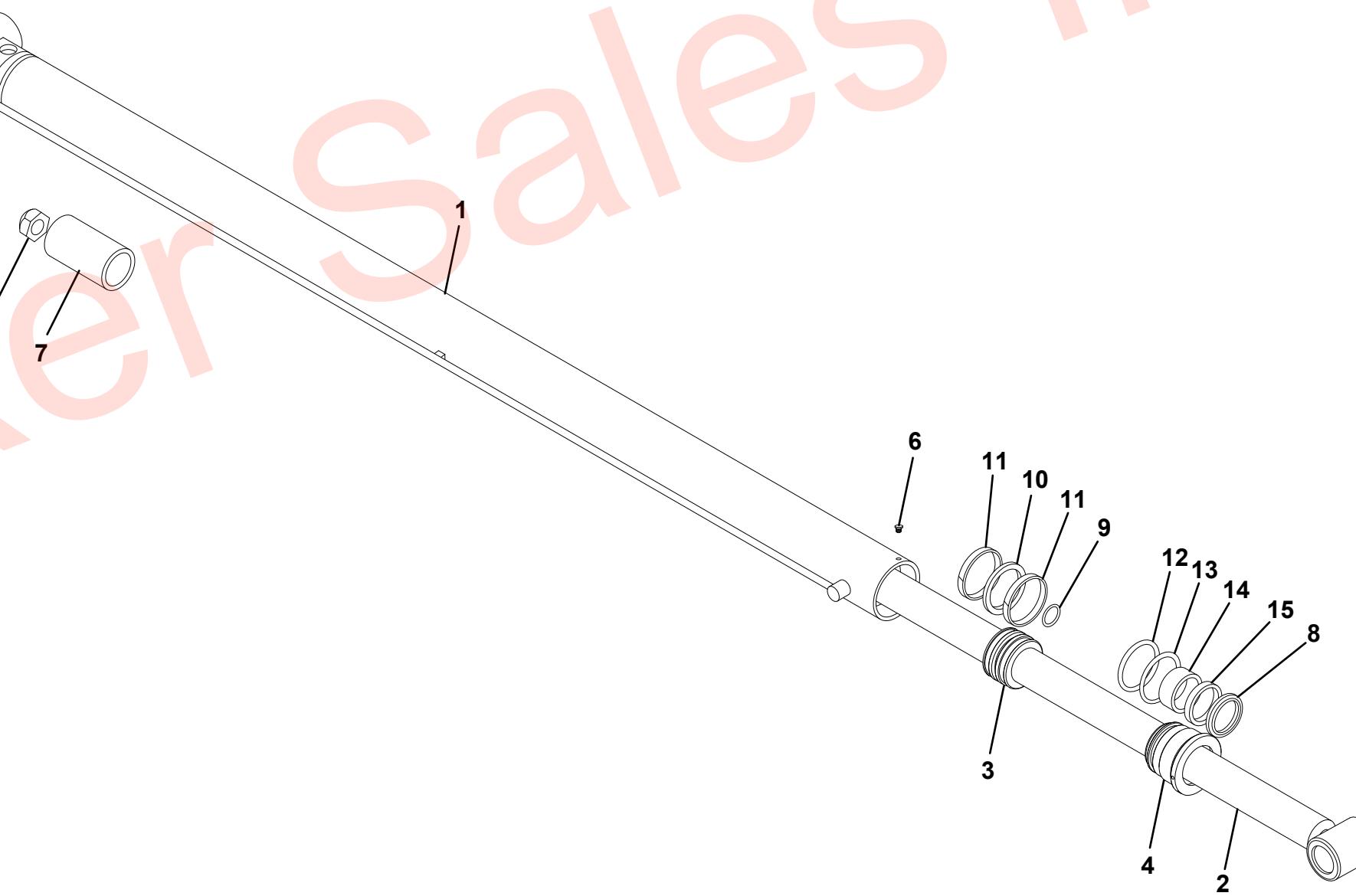
**OUTRIGGER/STABILIZER EXTENSION CYLINDER - 1001127312**

ITEM	PART NO.	DESCRIPTION	QTY
1	70050414	Barrel Weldment	1
2	70050437	Rod Weldment	1
3	70050445*	Piston	1
4	70050450^	Rod Bearing	1
5	91024100	Locknut, 1.00"-14NF	1
6	7029760	Screw, Locking	1
7	70050444	Stroke Limiter	1
8	91034051#^	Seal, Wiper	1
9	70050448#*	Seal, O-Ring	1
10	70050447#*	Seal, Piston	1
11	70050449#*	Wear Ring	2
12	70050439#^	Seal, O-Ring	1
13	70050438#^	Seal, Backup Ring	1
14	70050452#^	Wear Ring	1
15	70050451#^	Seal, Rod	1

\* Items Sold in Piston Assembly - 70050441

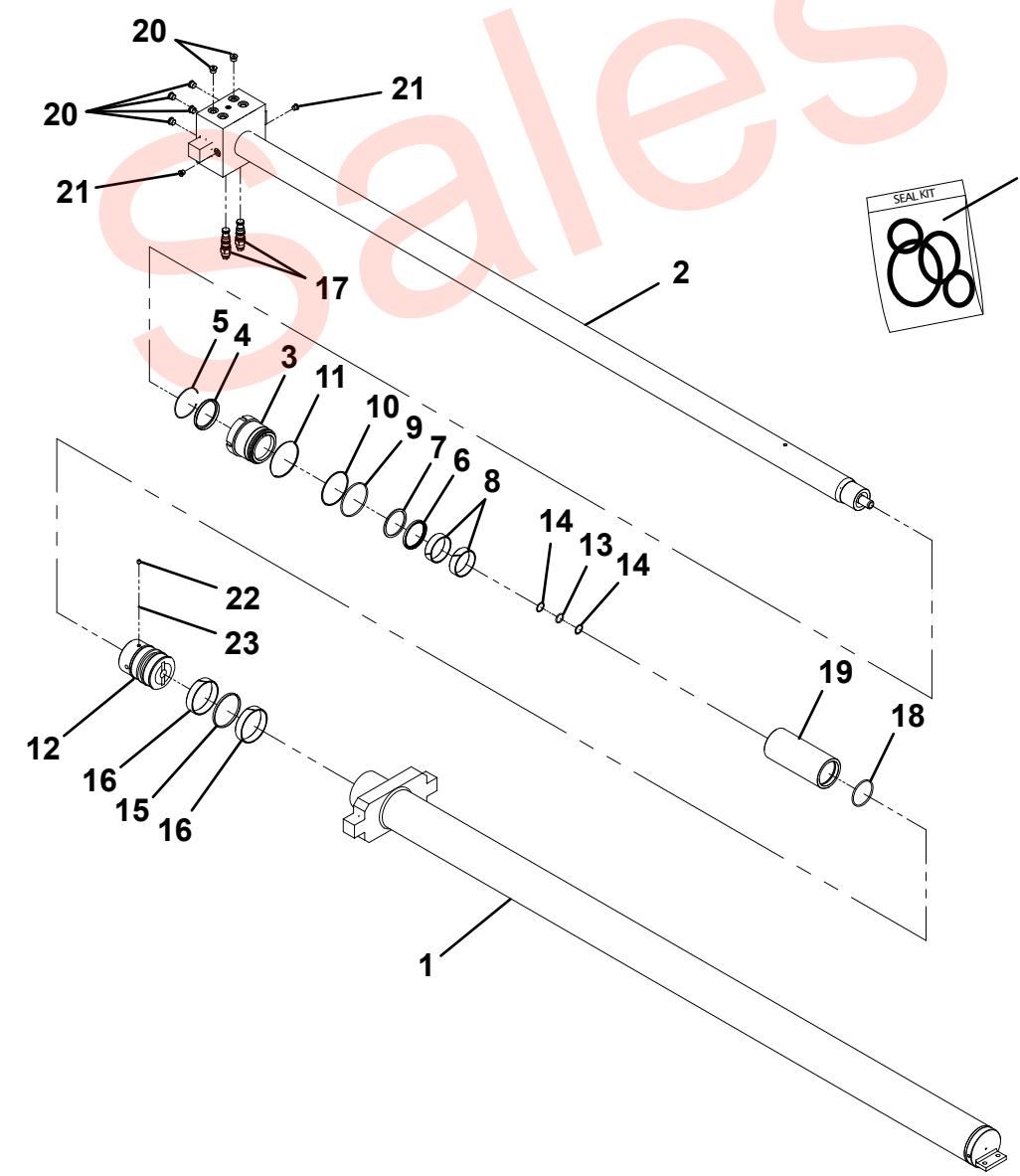
^ Items Sold in Rod Bearing Assembly - 70050442

# Items Sold in Seal Kit - 70050446

**OUTRIGGER/STABILIZER EXTENSION CYLINDER - 1001127312**

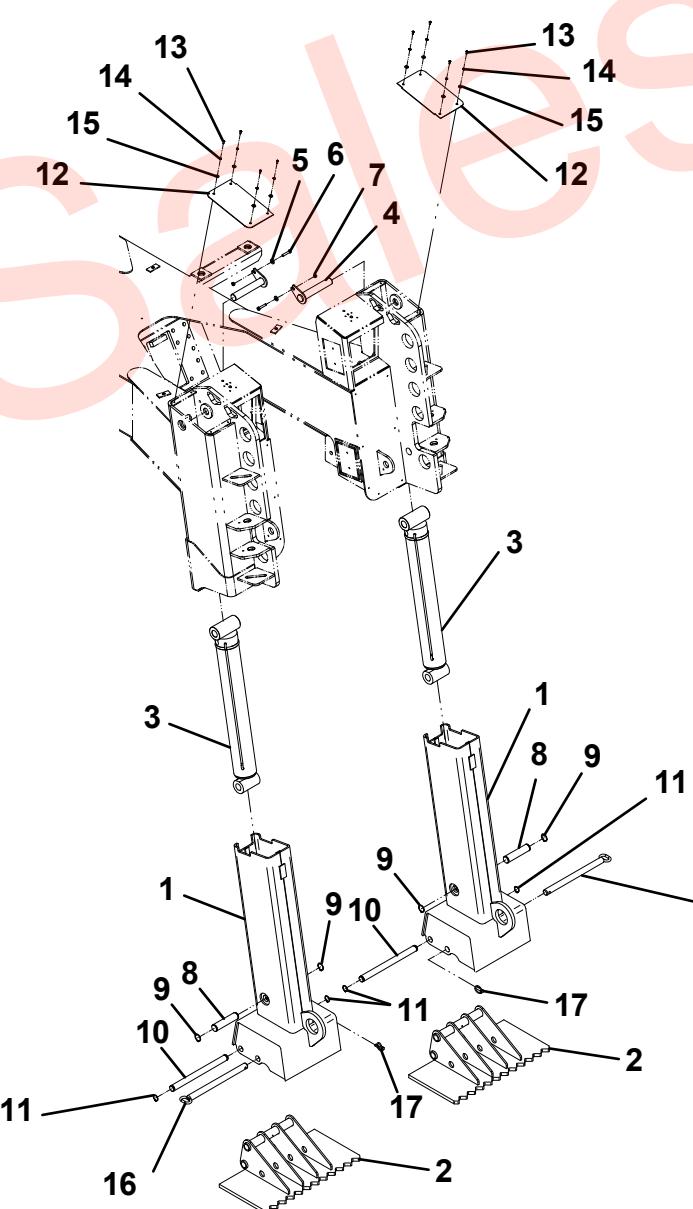
**OUTRIGGER/STABILIZER EXTENSION CYLINDER - 1001179132**

ITEM	PART NO.	DESCRIPTION	QTY
1	70050791	Barrel Weldment	1
2	70050792	Rod Weldment	1
3	70050793	Cap	1
4	70050794	Seal, Wiper	1
5	70050795	Retaining Ring	1
6	70050796	Seal, Rod	1
7	70050797	Seal, Backup Ring	1
8	70050798	Wear Ring	2
9	70050799	Seal, O-Ring	1
10	70050800	Ring, Backup	1
11	70050801	Seal, Ring	1
12	70050802	Piston	1
13	70050803	Seal, O-Ring	1
14	70050804	Ring, Backup	2
15	70050805	Seal, Piston	1
16	70050806	Wear Ring	2
17	70050807	Counter Balance	2
18	70050808	Seal, O-Ring	1
19	70050809	Spacer	1
20	70023371	Plug	6
21	70023370	Plug	2
22	70022563	Set Screw, M8 x 1.25	1
23	70022564	Steel Ball	1
24	70050810	Seal Kit	1

**OUTRIGGER/STABILIZER EXTENSION CYLINDER - 1001179132**

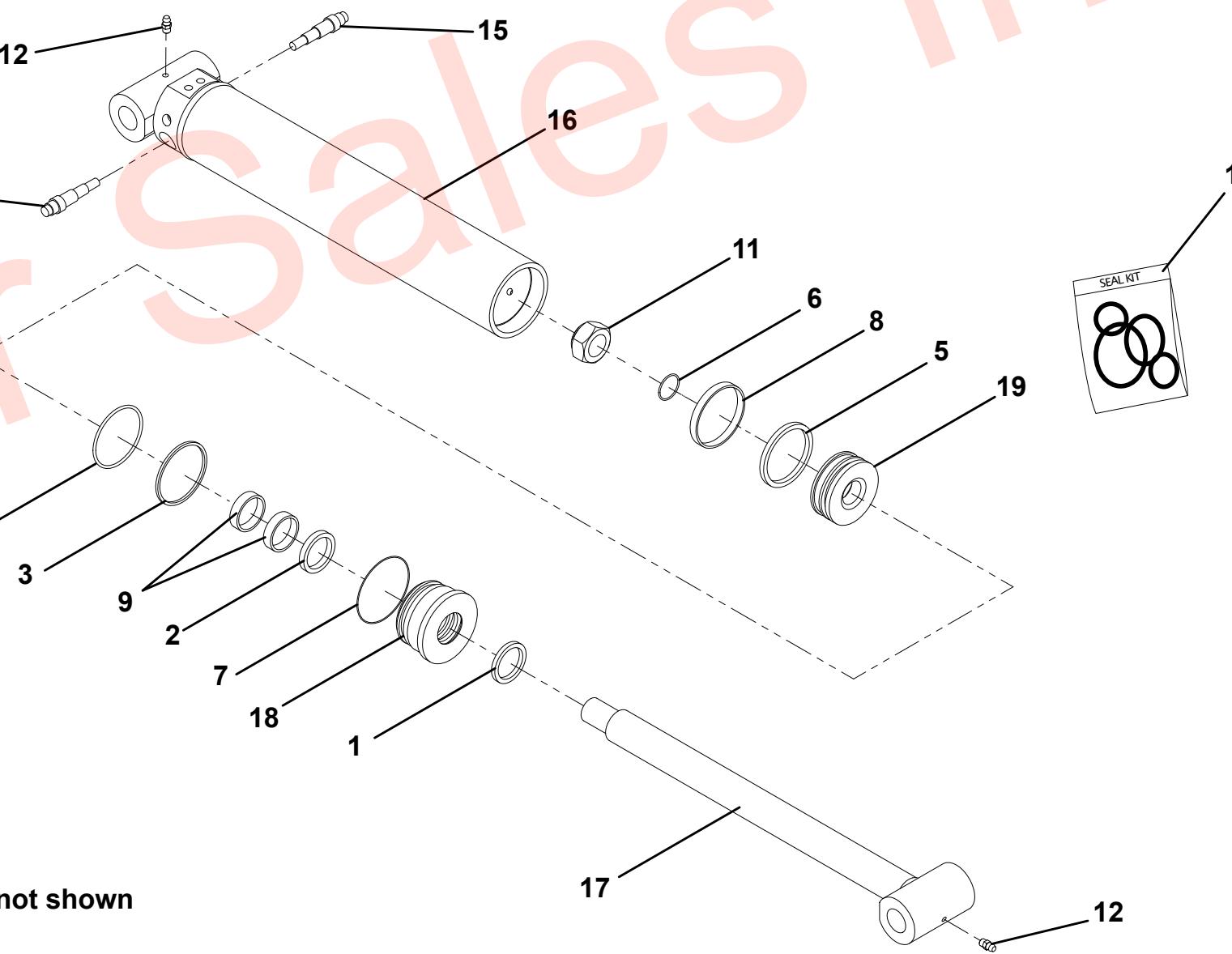
**REAR SPADE INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	3263000118	Channel Weldment	2
2	3706000261	Spade Claw Plate	2
3	7320000006	Spade Cylinder Assembly	2
4	3691000267	Pin	2
5	7950160161	Flatwasher, 0.38" ID	2
6	7115161650	Capscrew, 0.38"-16NC x 2.00"	2
7	7660162601	Locknut, 0.38"-16NC	2
8	7491000207	Pin"	2
9	7754000033	Retaining Ring	4
10	4691000200	Pin	2
11	7754000008	Retaining Ring	4
12	4706003716	Plate	2
13	7114140518	Capscrew, 0.25"-20NC x 0.63"	8
14	7949000025	Lockwasher 11MM ID	8
15	7950140153	Flatwasher, 0.25" ID	8
16	3691000126	Pin	2
17	7691000019	Lynch Pin	2

**REAR SPADE INSTALLATION**

**SPADE CYLINDER ASSEMBLY - 7320000006**

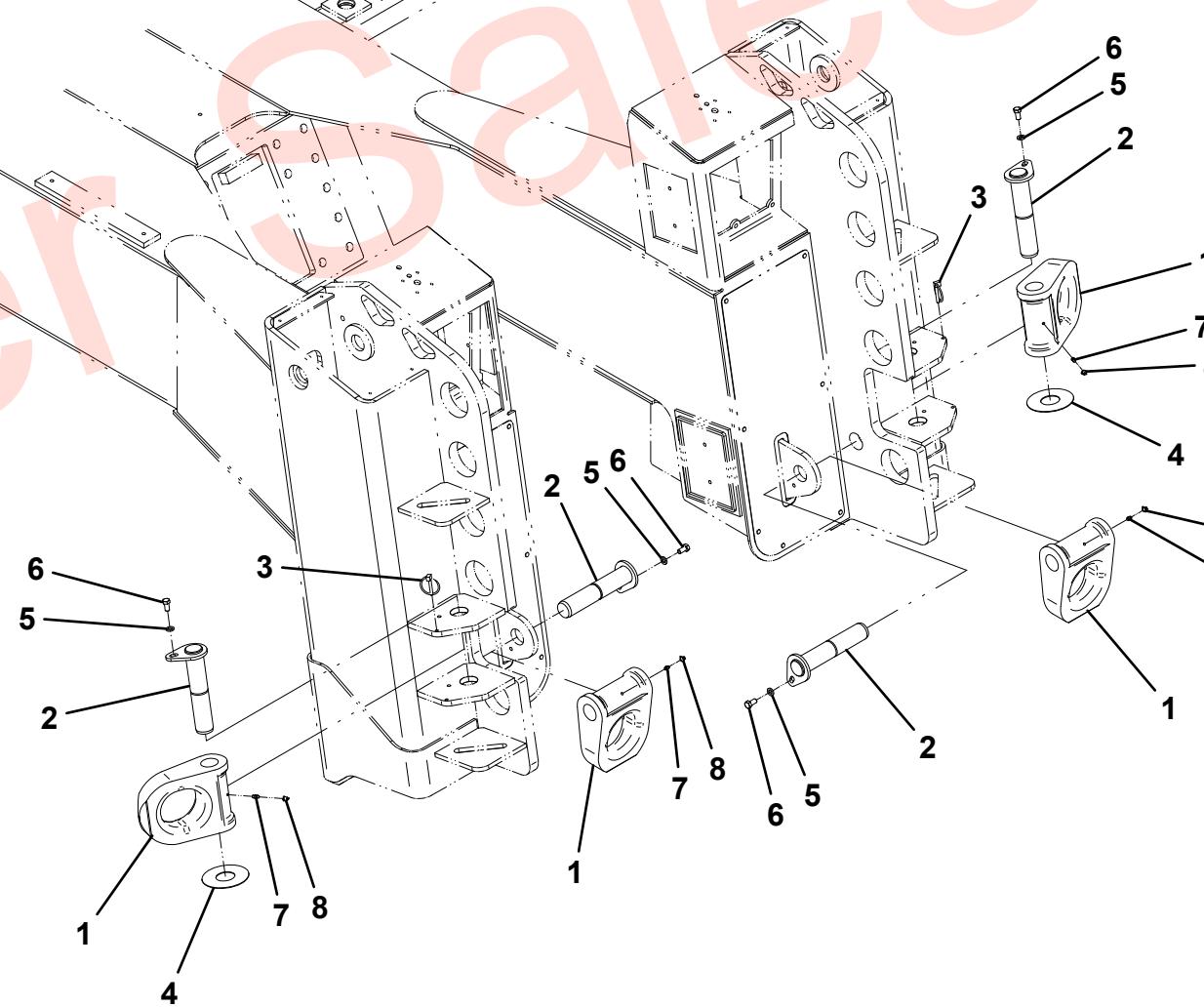
ITEM	PART NO.	DESCRIPTION	QTY
1	9796250080	Seal, Wiper	1
2	7019828	Seal	1
3	9754250009	Ring, Back-up	1
4	9796250057	Seal, "O" Ring	1
5	9796250073	Seal	1
6	9796250061	Seal, "O" Ring	1
7	9796250066	Seal, "O" Ring	1
8	9724250014	Ring, Wear	1
9	9754250015	Ring, Wear	2
10	7577000167	Kit, Seal	1
11	7003212	Locknut	1
12	7005322	Grease Fitting	2
13	7005365	Plug, Port	2
14	70021648	Plug, Port	2
15	70050215	Valve, Counterbalance	2
16	9912250004	Assembly, Tube	1
17	9763250009	Assembly, Rod	1
18	9553250009	Head	1
19	70050531	Piston	1

**SPADE CYLINDER ASSEMBLY - 7320000006**

Items #13 and #14, not shown

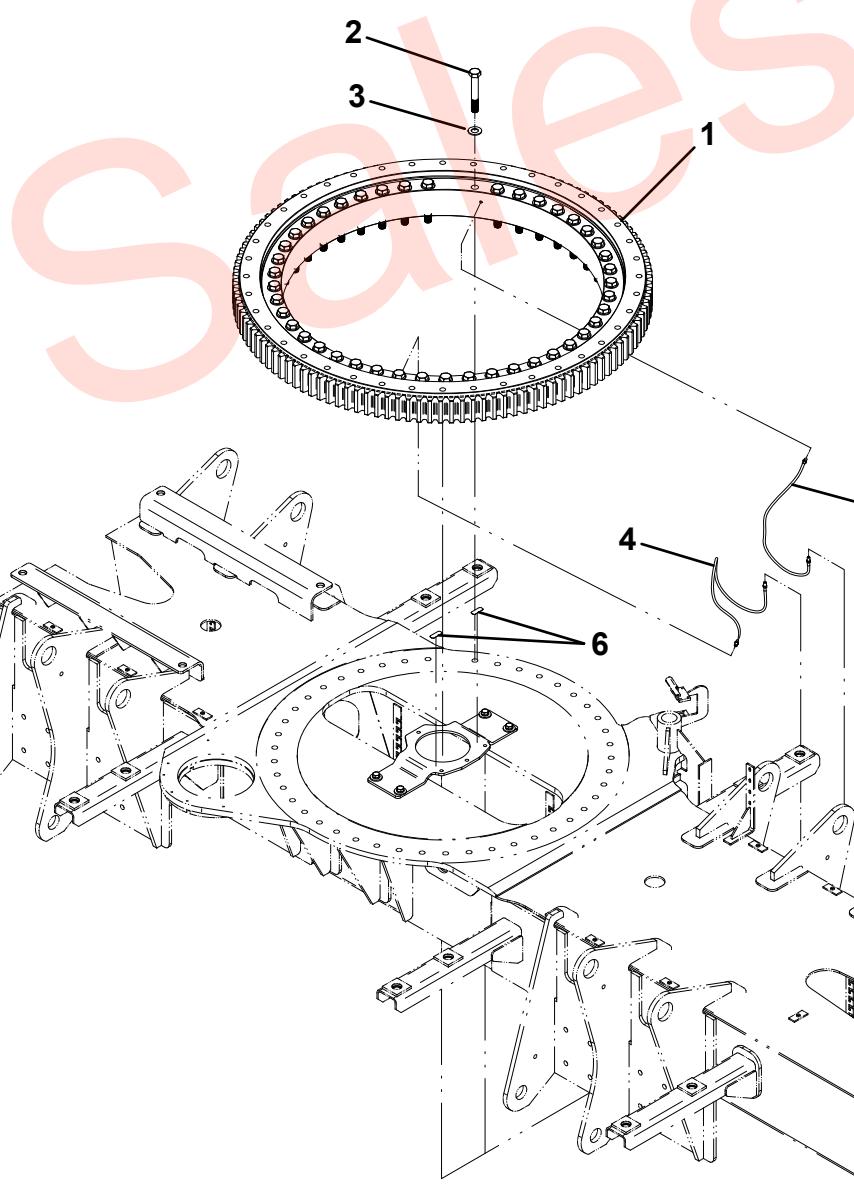
**TAIL BOARD D-RING INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	4754000004	D-Ring	4
2	3691000174	Pin	4
3	7691000047	Lynch Pin	2
4	4949000055	Washer, Nylatron	2
5	7115160650	Capscrew, 0.38"-16NC x 2.00"	4
6	7950160000	Lockwasher, 0.38" ID	4
7	7440030000	Grease Fitting	4
8	7253000002	Cap, Grease Fitting	4

**TAIL BOARD D-RING INSTALLATION**

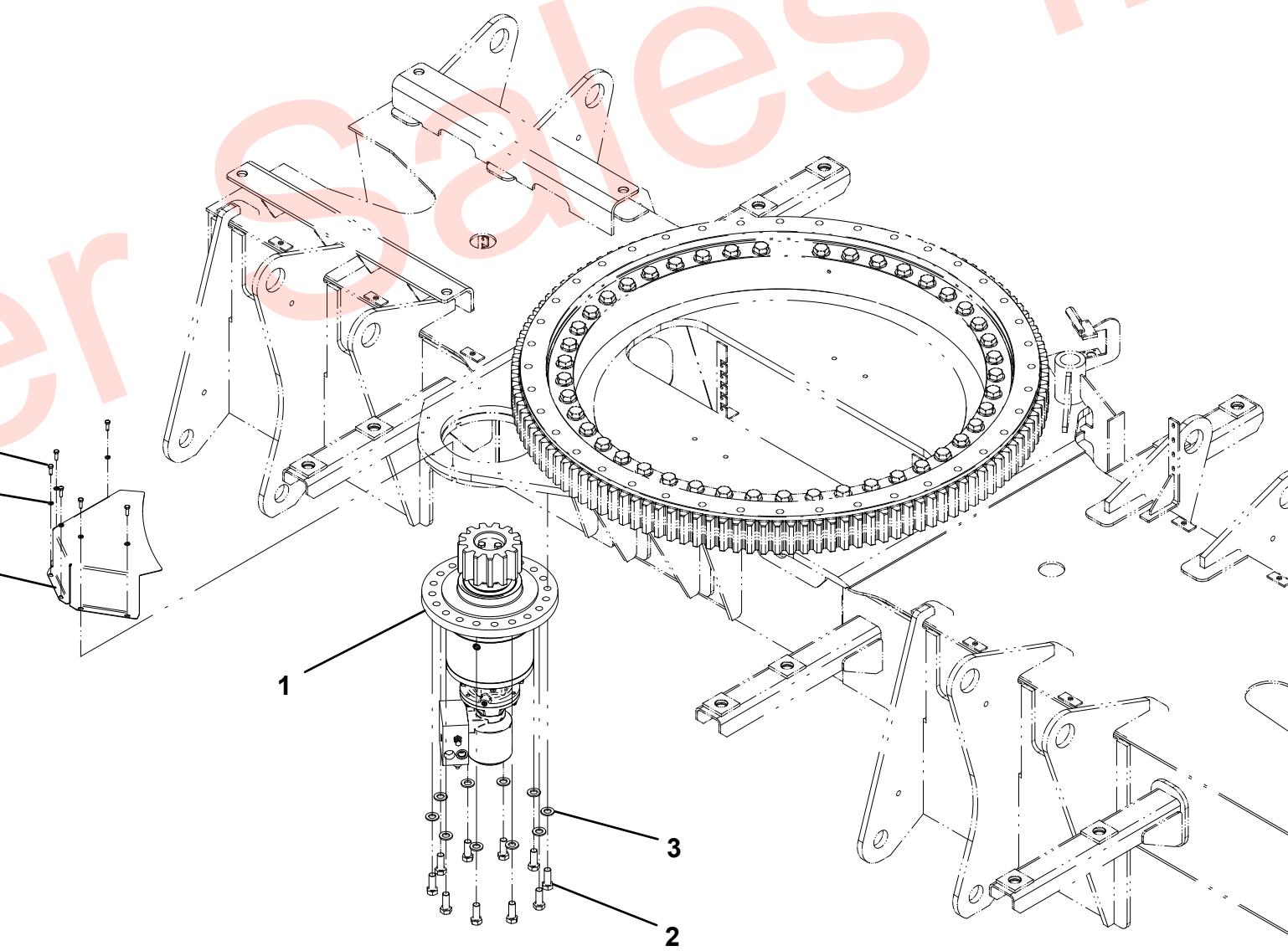
**SLEW BEARING INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001127316	Bearing	1
2	0682652	Capscrew, 1.00"-8NC x 6.50"	44
3	10701259	Flatwasher, 1.00" ID	44
4	1001136692	Hose, Grease	1
5	1001118961	Hose, Grease	1
6	1001131060	Decal, Bearing Grease	2

**SLEW BEARING INSTALLATION**

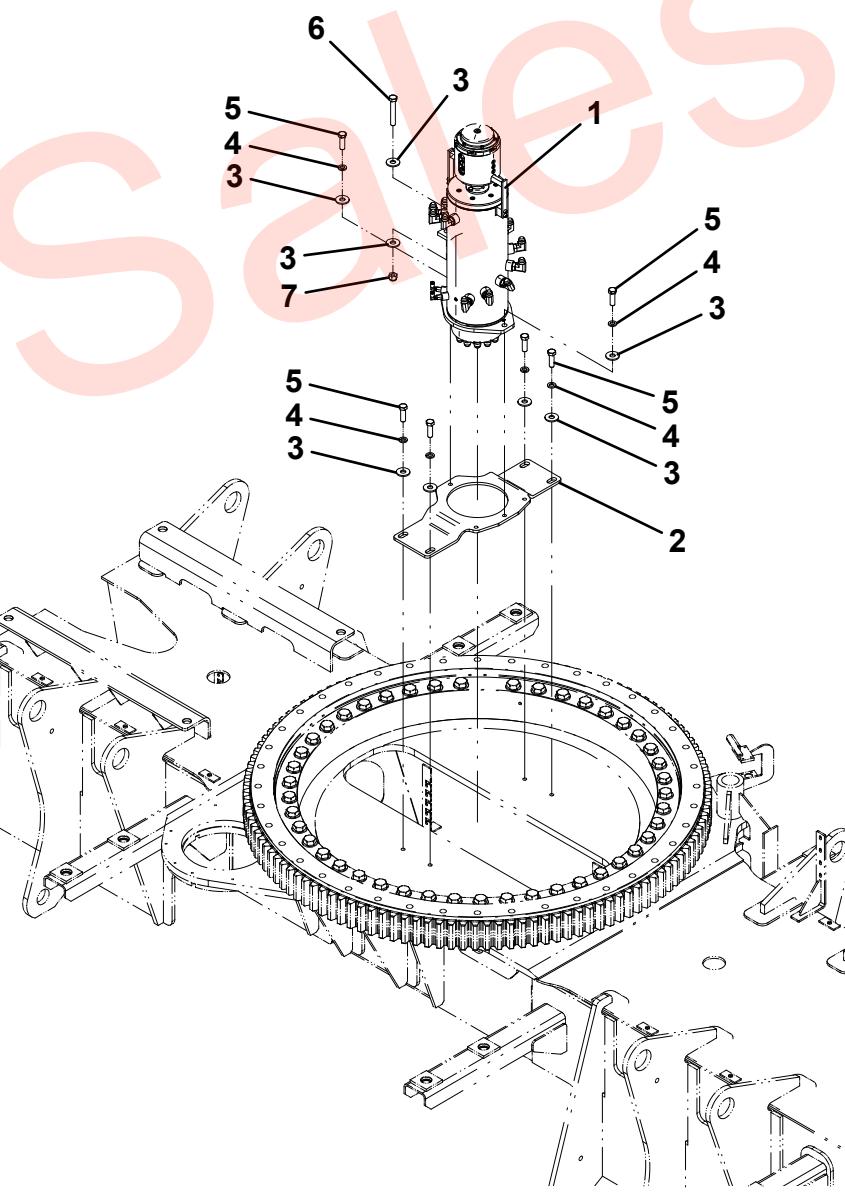
**SLEW DRIVE INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001127324	Motor, Planetary Gear Assembly	1
2	7118221650	Capscrew, 0.75"-10NC x 2.00"	10
3	7950220142	Flatwasher, 0.75" ID	10
4	1001130840	Cover	1
5	7115150850	Capscrew, 0.31"-18NC x 1.00"	6
6	7950150000	Lockwasher, 0.31" ID	6

**SLEW DRIVE INSTALLATION**

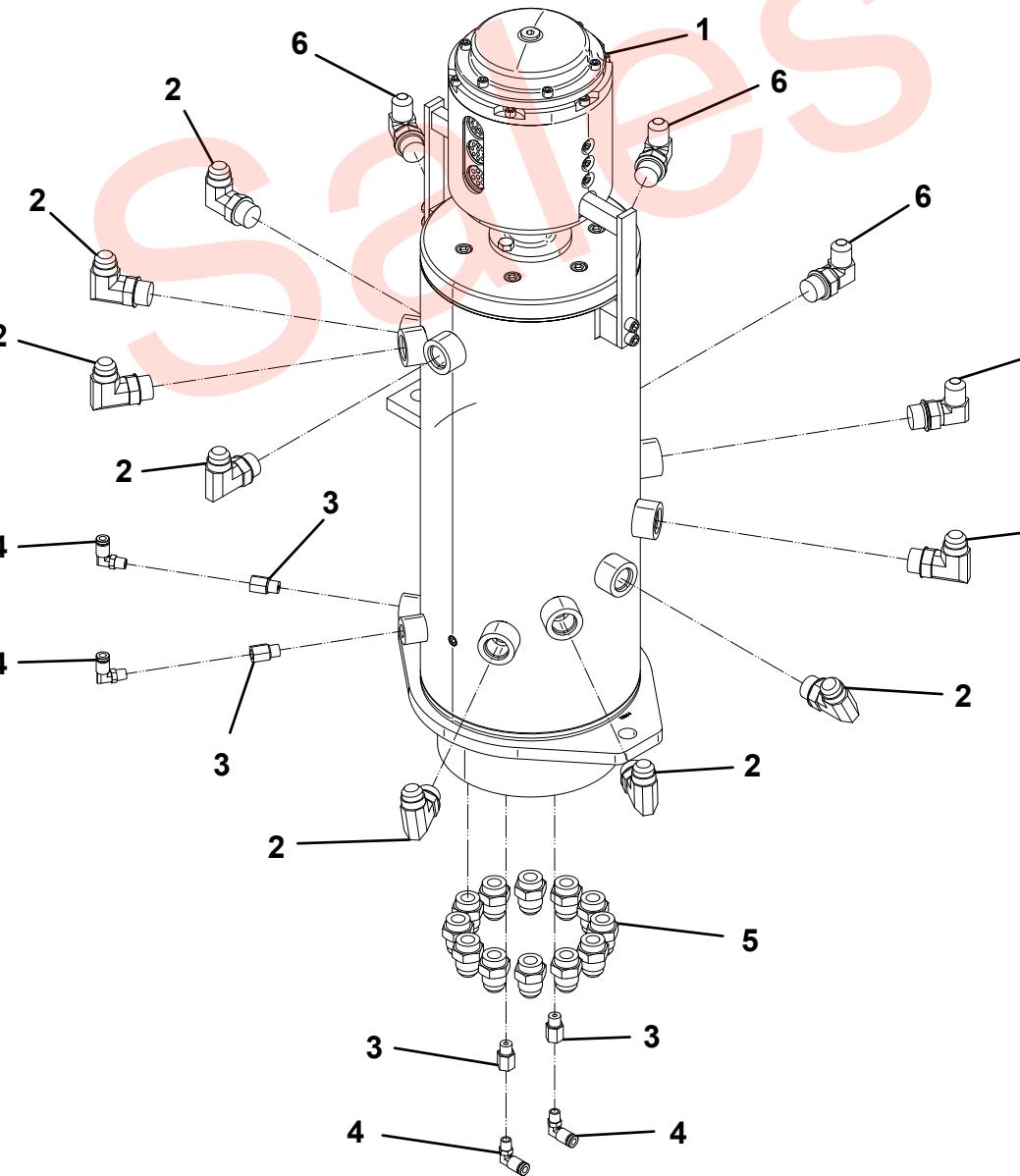
**SWIVEL INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001129628	Swivel Assembly, Hydraulic/Electric	1
2	1001129987	Bracket	1
3	7950200161	Flatwasher, 0.63" ID	8
4	7950200000	Lockwasher, 0.63" ID	6
5	7115201650	Capscrew, 0.63"-11NC x 2.00"	6
6	7115203250	Capscrew, 0.63"-11NC x 4.00"	1
7	7660202601	Locknut, 0.63"-11NC	1

**SWIVEL INSTALLATION**

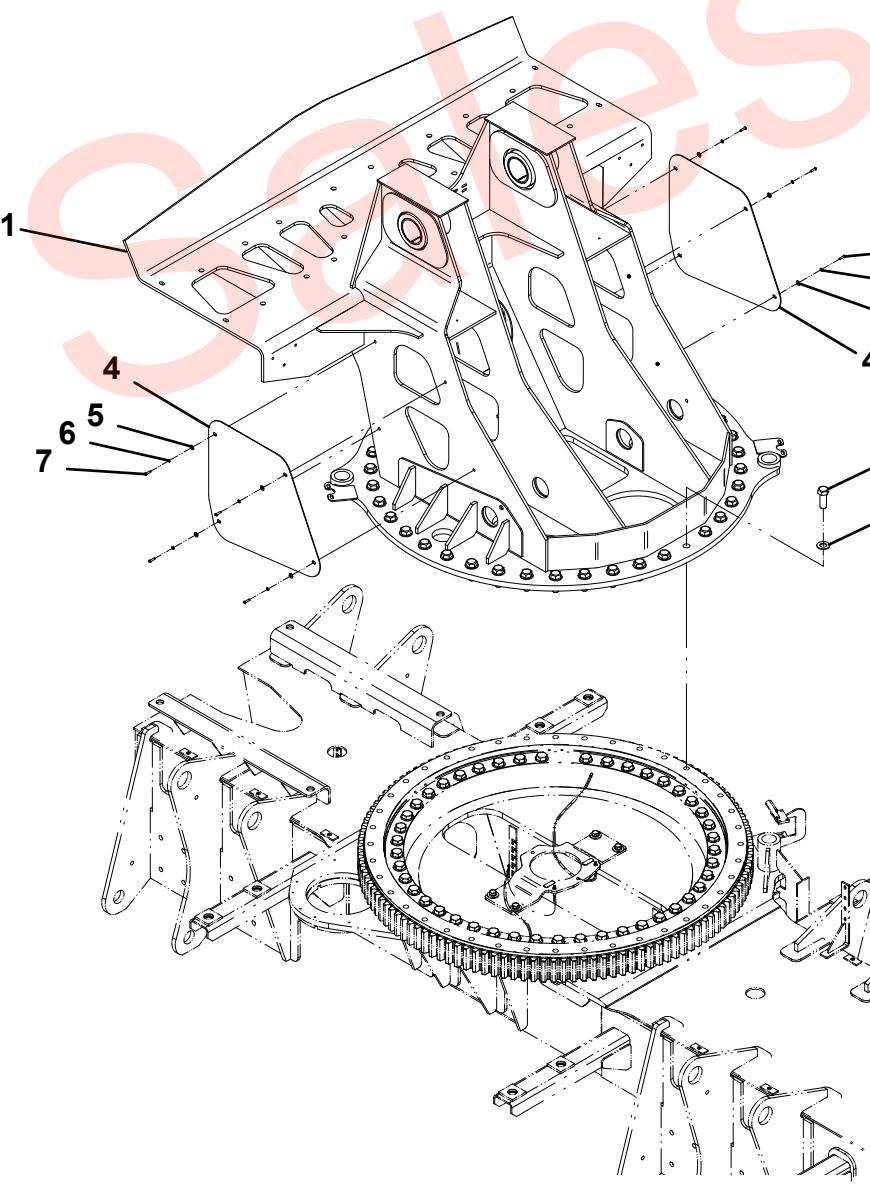
**SWIVEL ASSEMBLY, HYDRAULIC/ELECTRIC - 1001129628**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001127656	Hydraulic/Electric Swivel	1
2	7445101045	Elbow	8
3	7443000414	Adapter	4
4	7443000173	Elbow	4
5	7445101043	Adapter	12
6	7445081045	Elbow	4

**SWIVEL ASSEMBLY, HYDRAULIC/ELECTRIC - 1001129628**

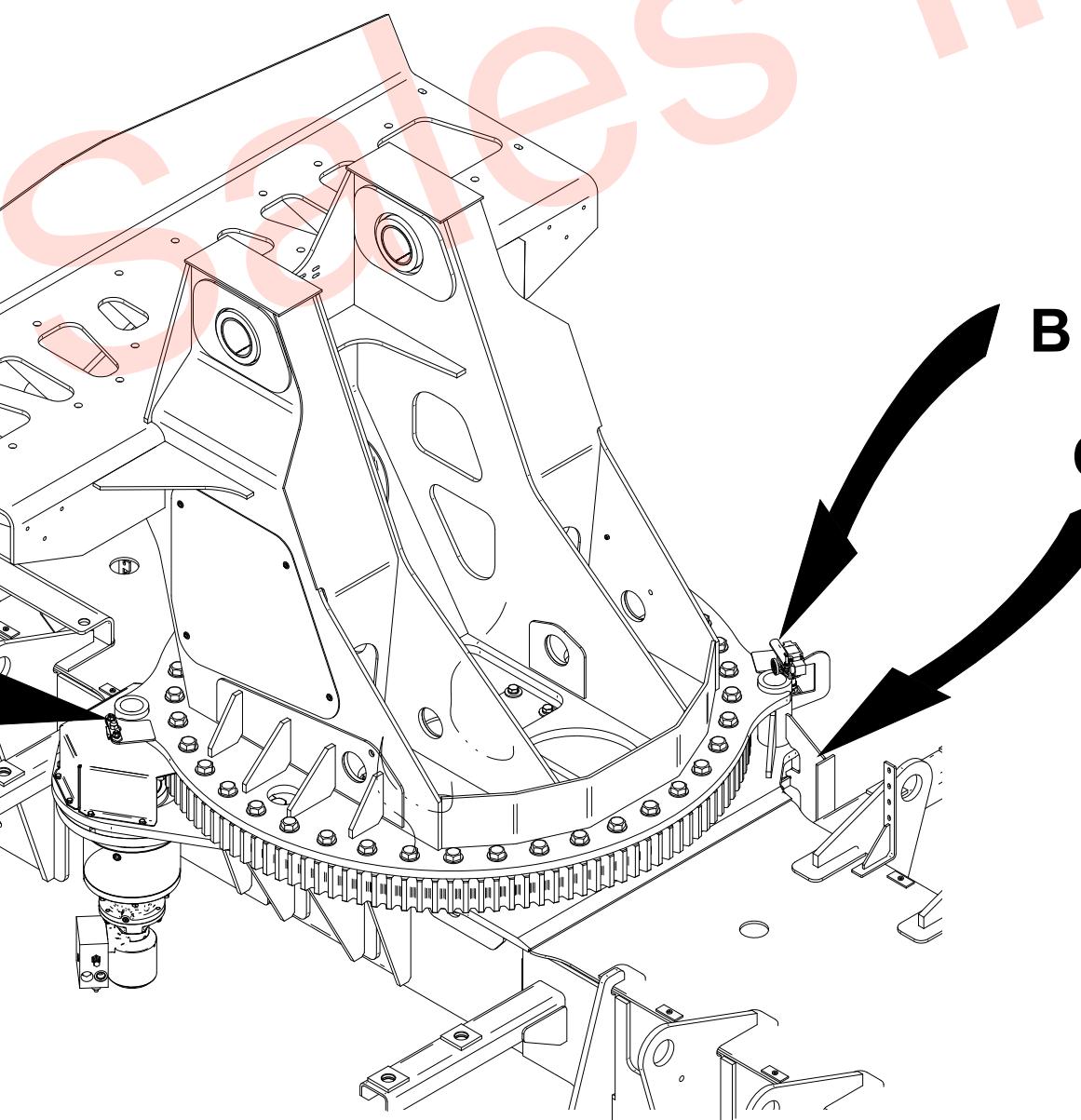
**TURNTABLE INSTALLATION**

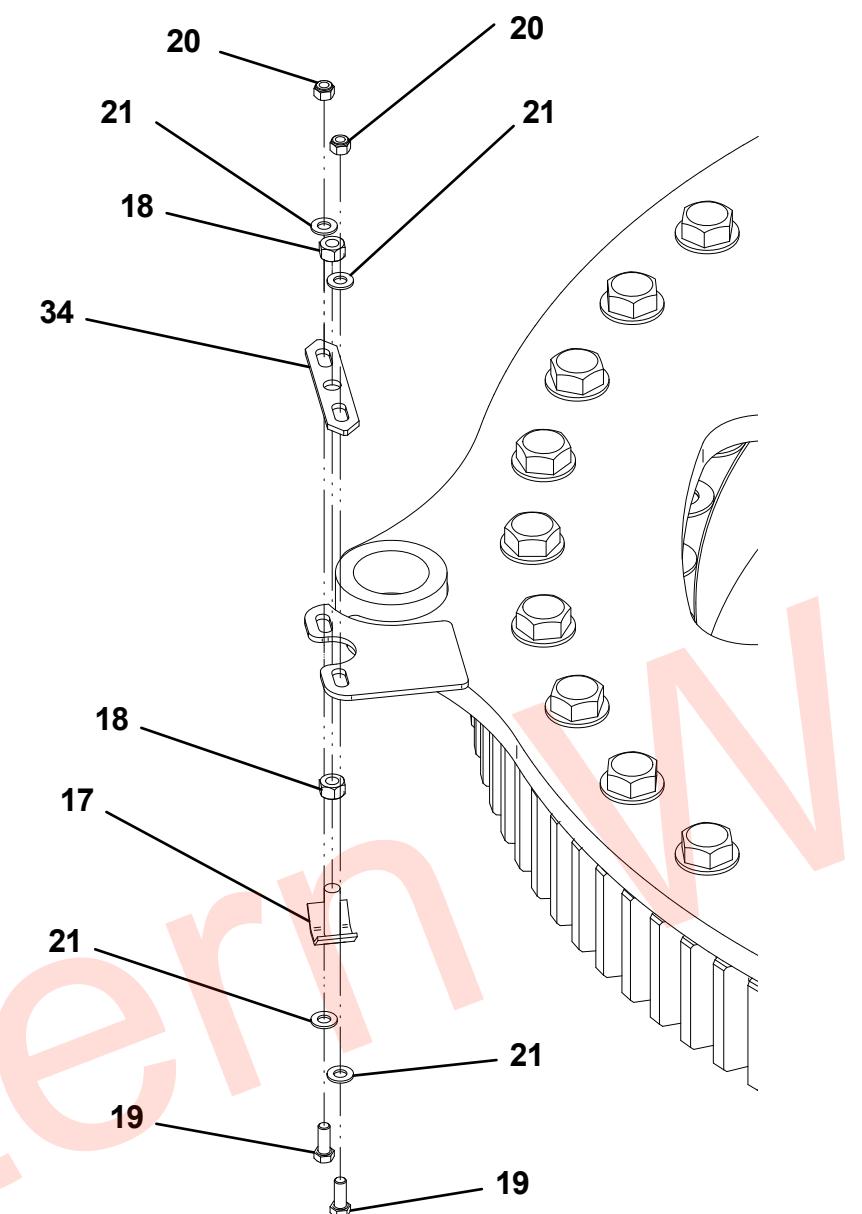
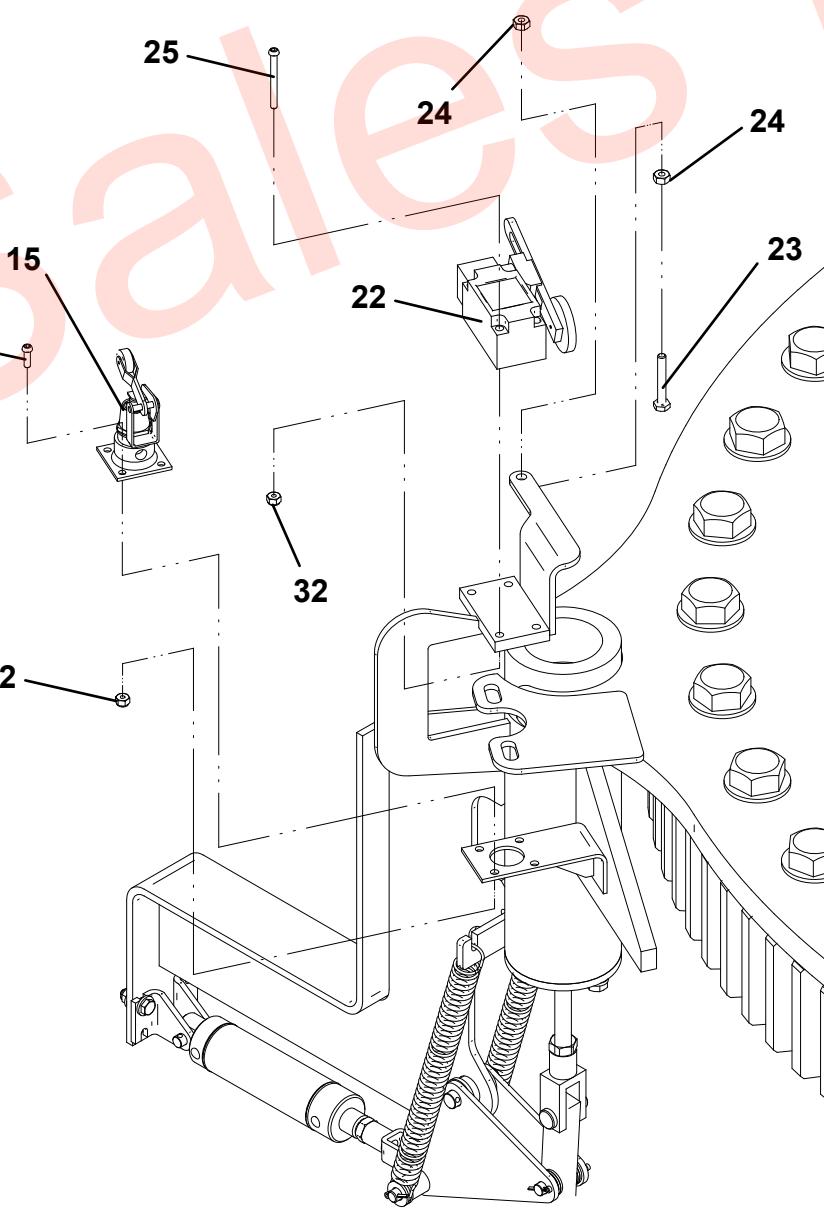
ITEM	PART NO.	DESCRIPTION	QTY
1	1001128391	Turntable Weldment	1
2	0682622	Capscrew, 1.00"-8NC x 2.75"	40
3	10701259	Flatwasher, 1.00" ID	40
4	1001134239	Cover	2
5	7950140161	Flatwasher, 0.25" ID	8
6	7950140000	Lockwasher, 0.25" ID	8
7	7114140818	Capscrew, 0.25"-20NC x 1.00"	8

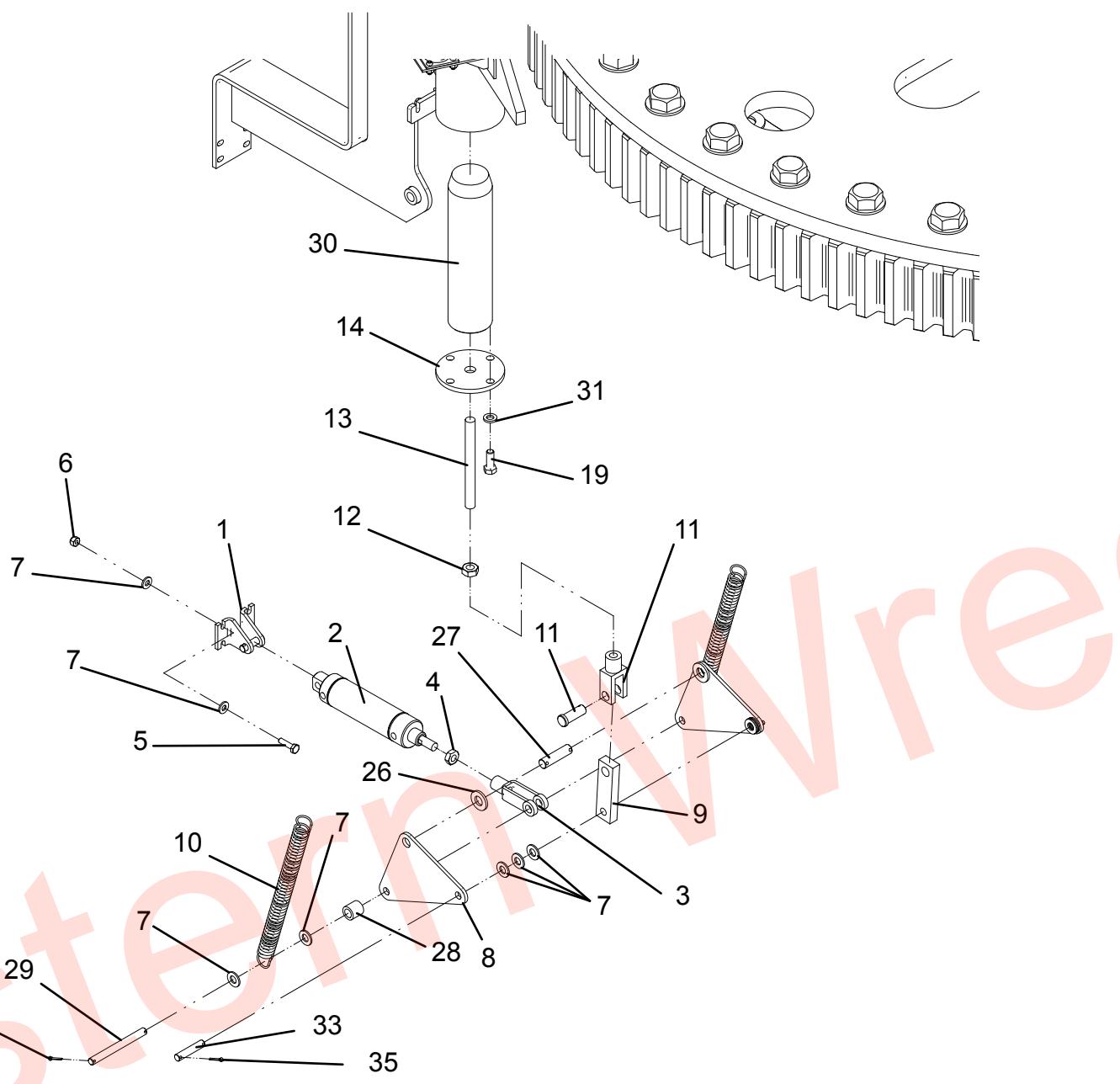
**TURNTABLE INSTALLATION**

**HOUSE LOCK INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	7178000038	Bracket	1
2	7320000069	Cylinder	1
3	7277000012	Clevis, 0.44"-20NF	1
4	7660170230	Nut, 0.44"-20NF	1
5	7115140850	Bolt, 0.25"-20NC x 1.00"	4
6	7660142601	Locknut, 0.25"-20NC	4
7	7950140141	Flatwasher, 0.25" ID	8
8	4706004174	Plate	2
9	4706004173	Plate	1
10	7843000038	Spring	2
11	7990000027	Clevis, 0.50"-13NC x 2.25"	1
12	7660180200	Nut, 0.50"-13NC	1
13	4763000295	Threaded Rod, 0.50"-13NC	1
14	1001157970	Plate	1
15	7935000273	Air Valve	1
16	7114100518	Capscrew, #10-24NC x 1.00"	4
17	1001142626	Bracket	2
18	7660180001	Nut, 0.50"-13NC	4
19	7115160850	Bolt	8
20	7660162601	Locknut, 0.38"-16NC	4
21	7950160141	Flatwasher, 0.38" ID	18
22	1001156061	Switch Grid Lockout	1
23	7115141450	Bolt, 0.25"-20NC x 1.75"	1
24	7660140001	Nut, 0.25"-20NC	2
25	7114101618	Capscrew, #10-24NC x 2.00"	4
26	7950180141	Flatwasher, 0.50" ID	2
27	7691000050	Pin	1
28	4912000369	Tube, 0.75" OD x 0.48" ID x 0.75"	2
29	4691000450	Pin	1
30	1001129470	Pin	1
31	7950160000	Lockwasher, 0.38" ID	4
32	7660102601	Locknut, #10-24NC	8
33	7691000049	Pin	1
34	4811000942	Sheet	2
35	7690021210	Pin	2
36	7346000056	Fitting Liquid	1

**HOUSE LOCK INSTALLATION**

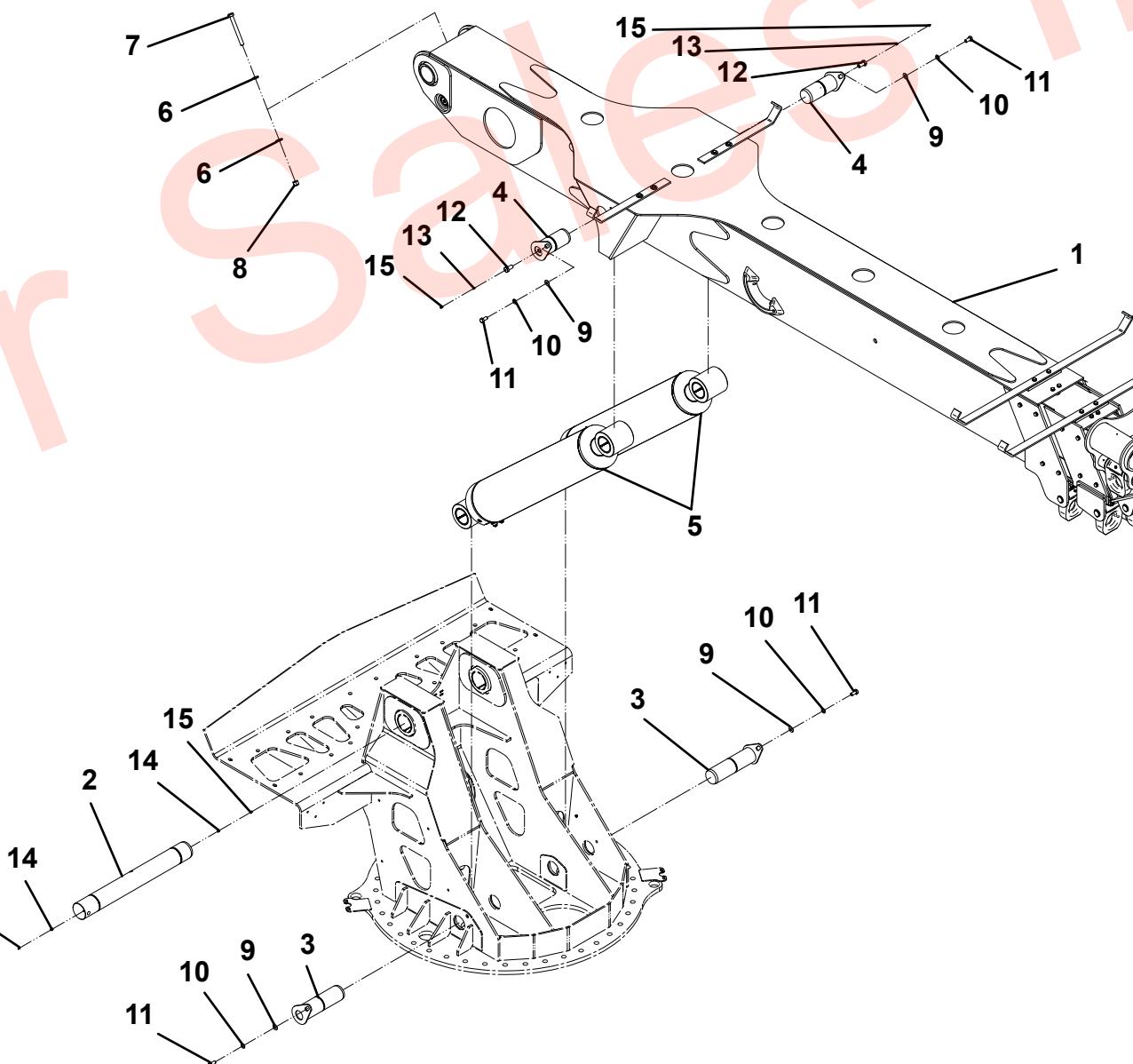
**HOUSE LOCK INSTALLATION****A****HOUSE LOCK INSTALLATION****B**

**HOUSE LOCK INSTALLATION**

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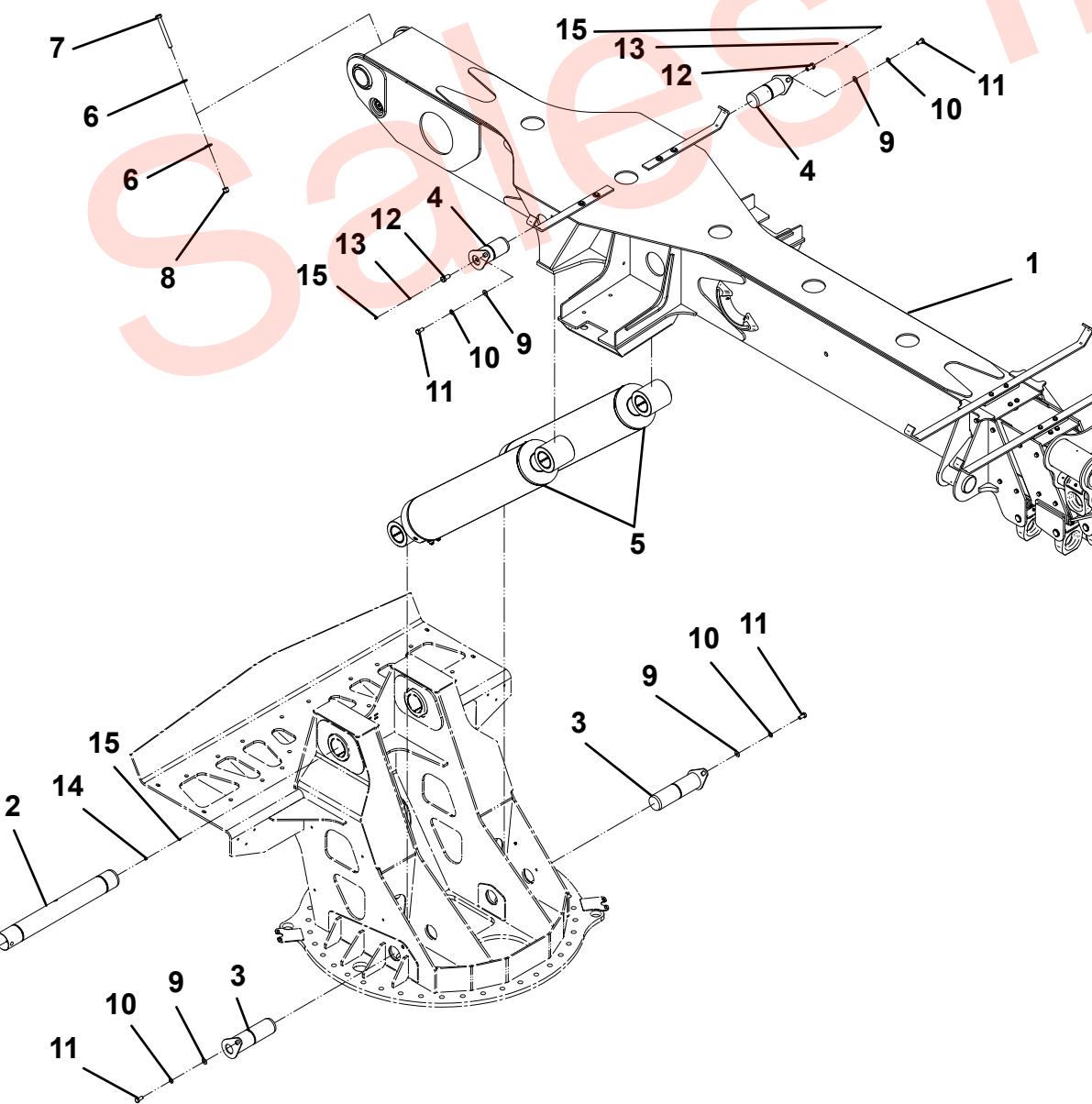
**WRECKER BOOM INSTALLATION - 3 PIECE**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001128463	Boom Assembly, 3 Piece	1
2	4691000556	Pin	1
3	1001128283	Pin	2
4	3691000252	Pin	2
5	1001127313	Lift Cylinder Assembly	2
6	7950220141	Flatwasher, 0.75" ID	2
7	7118225650	Capscrew, 0.75"-10NC x 7.00"	1
8	7660222601	Locknut, 0.75"-10NC	1
9	7950200141	Flatwasher, 0.63"-11NC x 1.25"	4
10	7950200000	Lockwasher, 0.63" ID	4
11	7115201050	Capscrew, 0.63"-11NC x 1.25"	4
12	4120000021	Capscrew, 0.75"-10NC x 1.50"	2
13	7440030000	Grease Fitting	2
14	7440000000	Grease Fitting	2
15	7253000002	Cap, Grease Fitting	4

**WRECKER BOOM INSTALLATION - 3 PIECE**

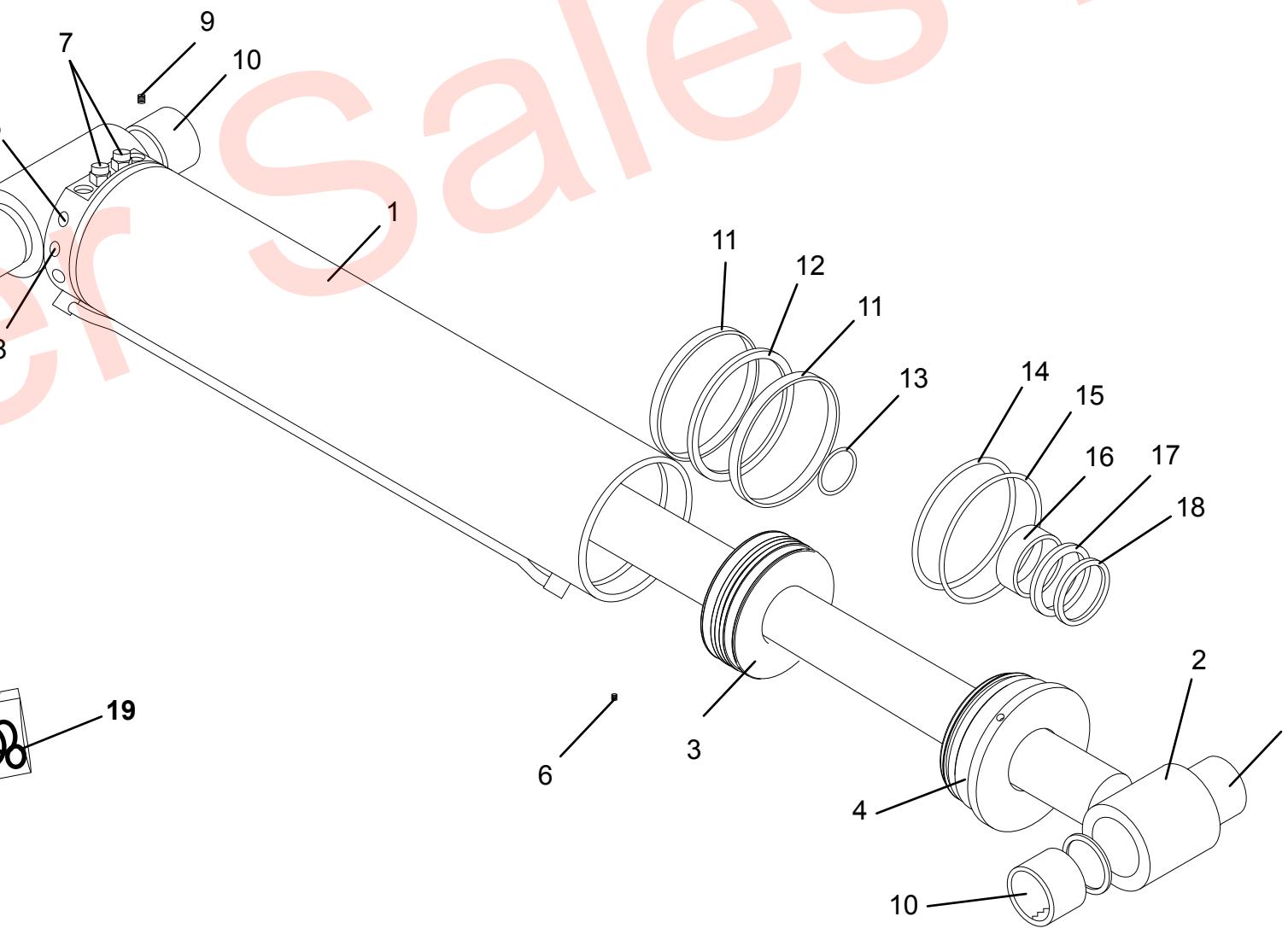
**WRECKER BOOM INSTALLATION - 3 PIECE W/ AUXILIARY WINCHES**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001158540	Boom Assembly, 3 Piece	1
2	4691000556	Pin	1
3	1001128283	Pin	2
4	3691000252	Pin	2
5	1001127313	Lift Cylinder Assembly	2
6	7950220141	Flatwasher, 0.75" ID	2
7	7118225650	Capscrew, 0.75"-10NC x 7.00"	1
8	7660222601	Locknut, 0.75"-10NC	1
9	7950200141	Flatwasher, 0.63"-11NC x 1.25"	4
10	7950200000	Lockwasher, 0.63" ID	4
11	7115201050	Capscrew, 0.63"-11NC x 1.25"	4
12	4120000021	Capscrew, 0.75"-10NC x 1.50"	2
13	7440030000	Grease Fitting	2
14	7440000000	Grease Fitting	2
15	7253000002	Cap, Grease Fitting	4

**WRECKER BOOM INSTALLATION - 3 PIECE W/ AUXILIARY WINCHES**

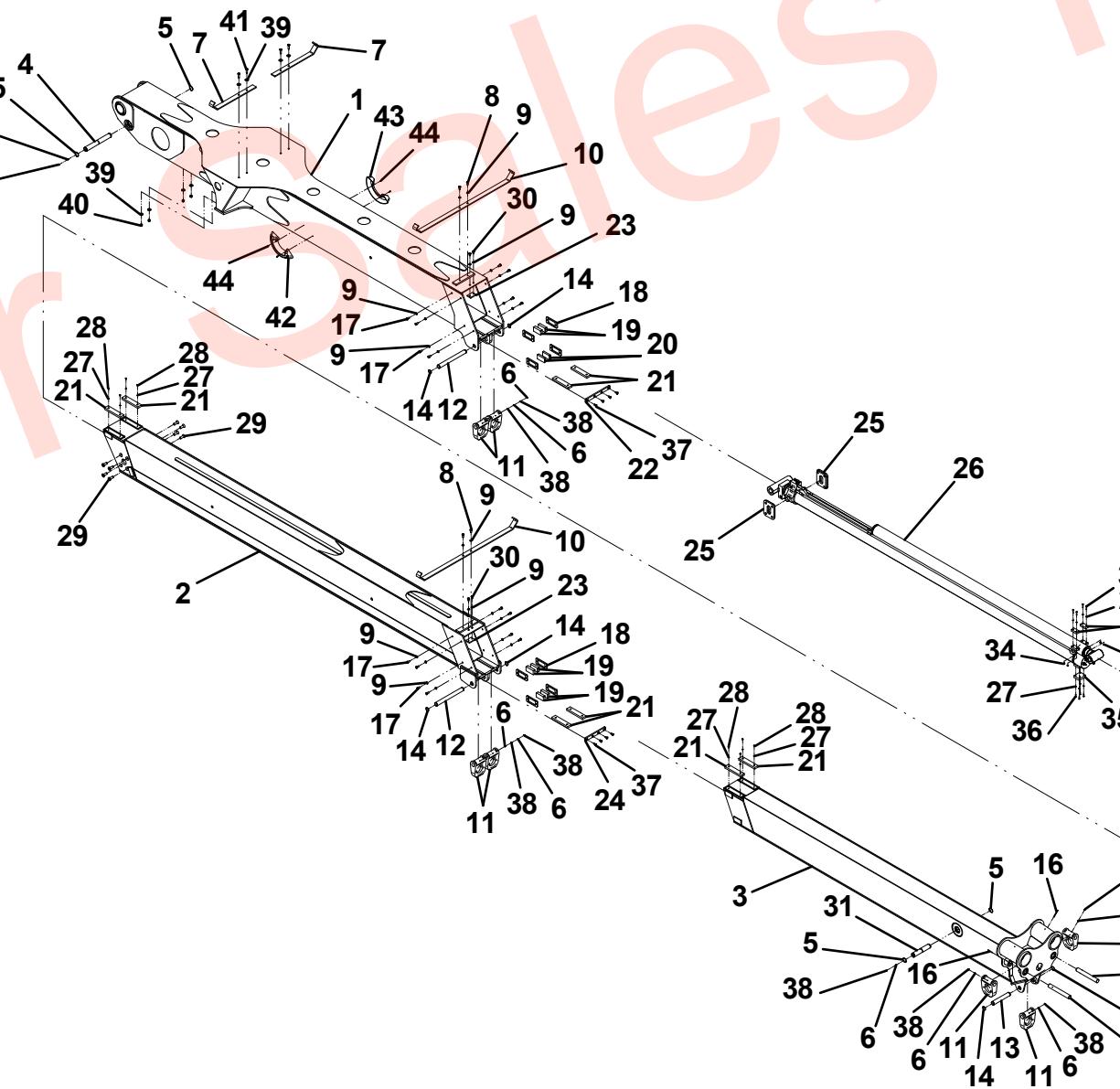
**WRECKER BOOM LIFT CYLINDER - 1001127313**

ITEM	PART NO.	DESCRIPTION	QTY
1	70050403	Barrel Assembly	1
2	70050404	Rod Assembly	1
3	70050411	Piston	1
4	70050416	Rod Bearing	1
5	70022067	Steel SAE O-Ring Plug #4	4
6	7029760	Locking Screw	1
7	70050407	Counterbalance Valve	2
8	70050408	Grease Fitting	1
9	70050409	Set Screw	1
10	70050410	Connex Bushing	4
11	70050415	Wear Ring, Piston	2
12	70050413	Rectangular Piston Seal	1
13	91034041	O-Ring	1
14	70050420	O-Ring	1
15	70050421	Backup Ring	1
16	70050423	Wear Ring Rod	1
17	70050422	Rod Seal	1
18	70050419	Seal Wiper	1
19	70050412	Seal Kit	1

**WRECKER BOOM LIFT CYLINDER - 1001127313**

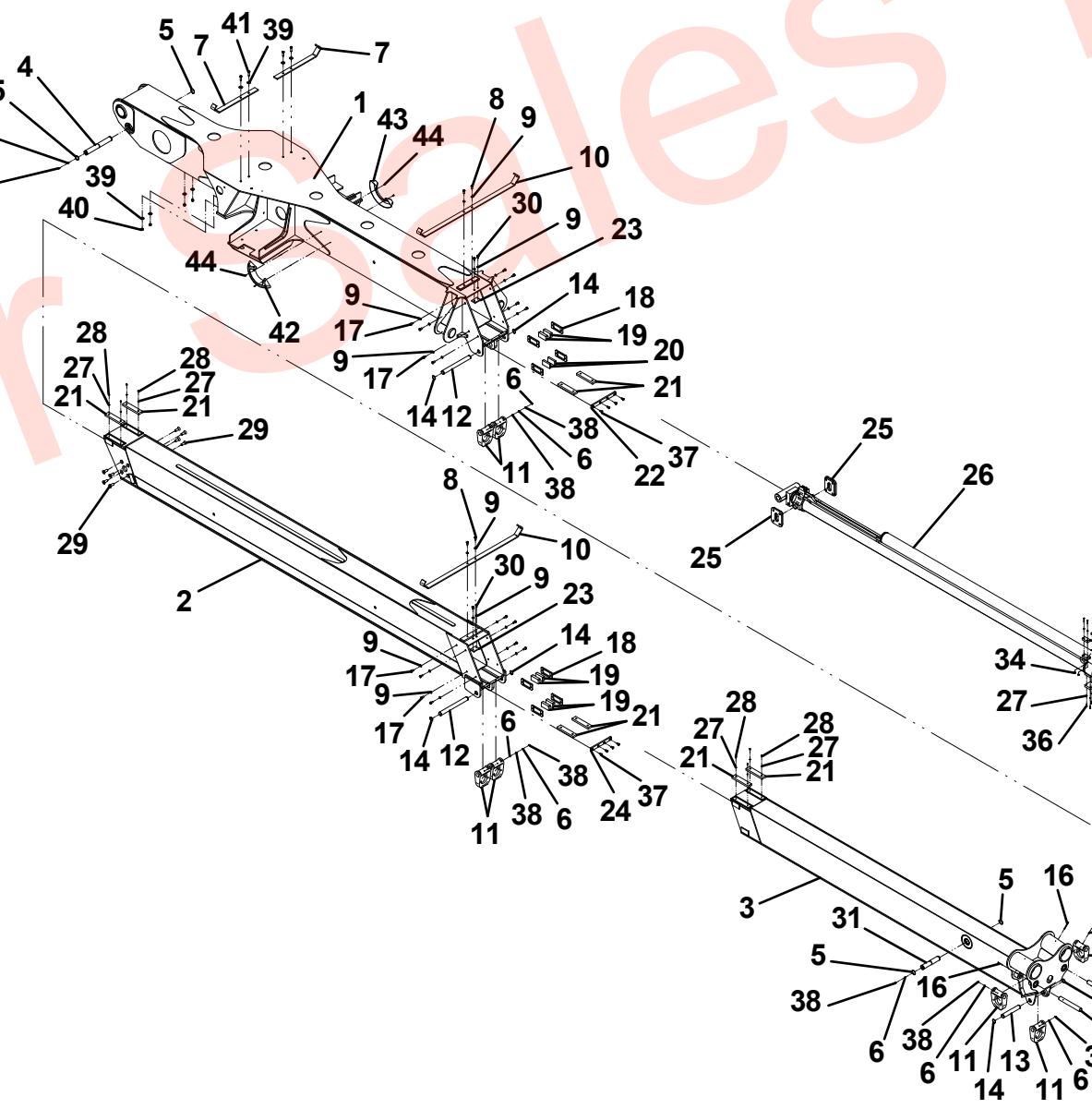
**WRECKER BOOM ASSEMBLY - 1001128463**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001127853	Boom Weldment, Base Section	1
2	1001127841	Boom Weldment, Mid Section	1
3	1001127836	Boom Weldment, Fly Section	1
4	4691000417	Pin	1
5	7754000055	Retaining Ring	4
6	7440030000	Grease Fitting	9
7	4062000522	Bar	2
8	7115180850	Capscrew, 0.50"-13NC x 1.00"	4
9	7950180000	Lockwasher, 0.59" ID	24
10	4062000589	Bar	2
11	4754000004	D-Ring	7
12	1001129006	Pin	2
13	1001129393	Pin	1
14	7754000014	Retaining Ring	6
15	4691000285	Pin	2
16	7690144840	Pin, Spring	2
17	7108180850	Capscrew, 0.50"-20NF x 1.00"	16
18	4178000811	Bracket	8
19	4679000314	Pad	6
20	4679000313	Pad	2
21	4679000140	Pad	2
22	1001129004	Plate	1
23	4062000715	Bar	2
24	1001129005	Plate	1
25	3706000241	Plate Weldment	2
26	7320000085	Extension Cylinder Assembly	2
27	7950140000	Lockwasher, 0.25" ID	16
28	7118140427	Capscrew, 0.25"-20NC x 0.50"	8
29	7120000040	Capscrew, 0.75"-10NC x 2.00"	8
30	7115180650	Capscrew, 0.50"-13NC x 0.75"	4
31	4691000416	Pin	1
32	4679000319	Pad	2
33	7114141218	Capscrew, 0.25"-20NC x 1.50"	4
34	7660142601	Locknut, 0.25"-20NC	4
35	4679000326	Pad	1
36	7114140818	Capscrew, 0.25"-20NC x 1.00"	4
37	7118180820	Capscrew, 0.50"-13NC x 1.00"	8
38	7253000002	Grease Fitting	9
39	7950180161	Flatwasher, 0.50" ID	8

**WRECKER BOOM ASSEMBLY - 1001128463**

**WRECKER BOOM ASSEMBLY - 1001158540 - W/AUXILIARY WINCH**

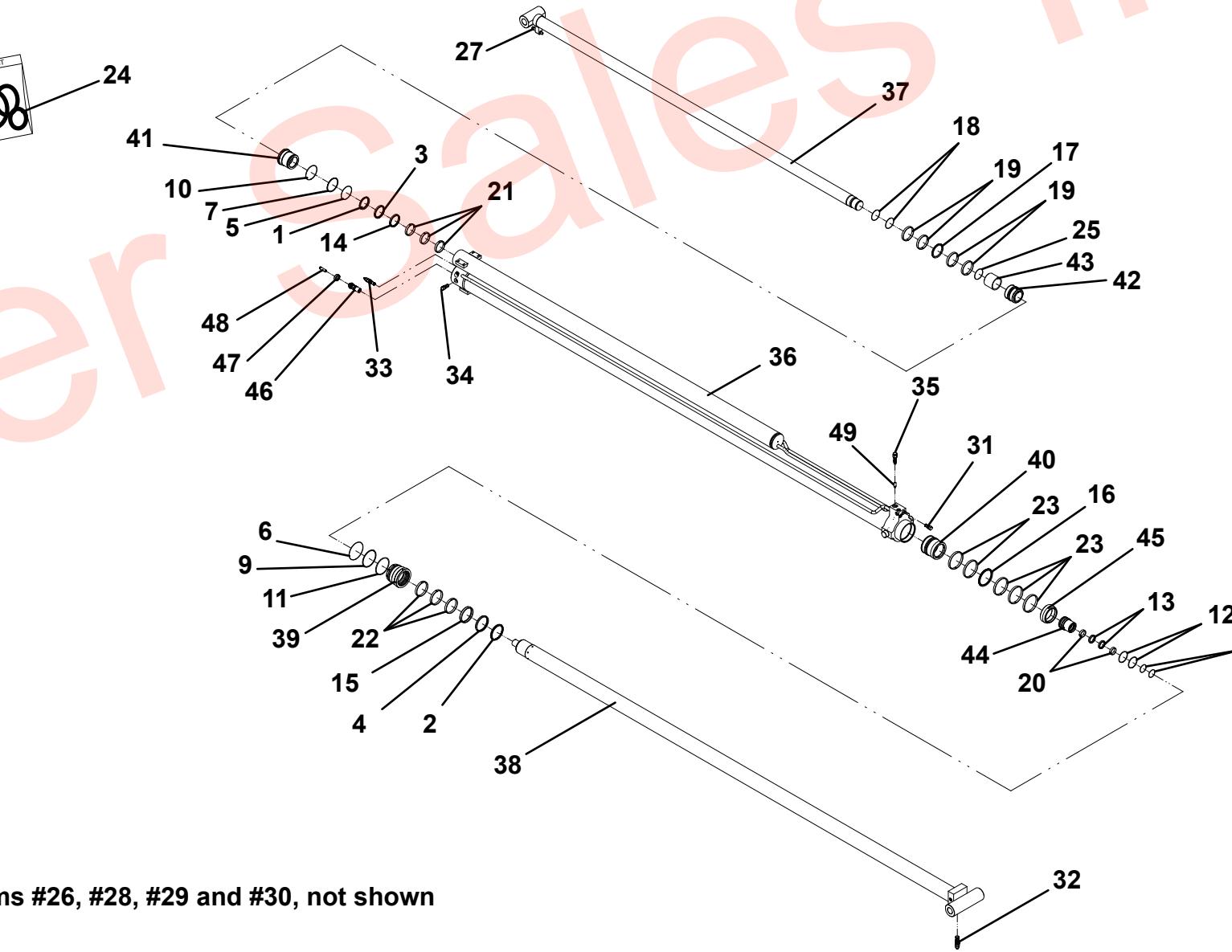
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	1001158448	Boom Weldment, Base Section	1	40	7660182601	Locknut, 0.50"-13NC	4
2	1001127841	Boom Weldment, Mid Section	1	41	7115181450	Capscrew, 0.50"-13NC x 1.75"	4
3	1001127836	Boom Weldment, Fly Section	1	42	7470000014	Gauge, Angle Indicator- LH	1
4	4691000417	Pin	1	43	7470000019	Gauge, Angle Indicator- RH	1
5	7754000055	Retaining Ring	4	44	7114100418	Capscrew, #10-24NC x 0.50"	4
6	7440030000	Grease Fitting	9				
7	4062000522	Bar	2				
8	7115180850	Capscrew, 0.50"-13NC x 1.00"	4				
9	7950180000	Lockwasher, 0.59" ID	24				
10	4062000589	Bar	2				
11	4754000004	D-Ring	7				
12	1001129006	Pin	2				
13	1001129393	Pin	1				
14	7754000014	Retaining Ring	6				
15	4691000285	Pin	2				
16	7690144840	Pin, Spring	2				
17	7108180850	Capscrew, 0.50"-20NF x 1.00"	16				
18	4178000811	Bracket	8				
19	4679000314	Pad	6				
20	4679000313	Pad	2				
21	4679000140	Pad	2				
22	1001129004	Plate	1				
23	4062000715	Bar	2				
24	1001129005	Plate	1				
25	3706000241	Plate Weldment	2				
26	7320000085	Extension Cylinder Assembly	2				
27	7950140000	Lockwasher, 0.25" ID	16				
28	7118140427	Capscrew, 0.25"-20NC x 0.50"	8				
29	7120000040	Capscrew, 0.75"-10NC x 2.00"	8				
30	7115180650	Capscrew, 0.50"-13NC x 0.75"	4				
31	4691000416	Pin	1				
32	4679000319	Pad	2				
33	7114141218	Capscrew, 0.25"-20NC x 1.50"	4				
34	7660142601	Locknut, 0.25"-20NC	4				
35	4679000326	Pad	1				
36	7114140818	Capscrew, 0.25"-20NC x 1.00"	4				
37	7118180820	Capscrew, 0.50"-13NC x 1.00"	8				
38	7253000002	Grease Fitting	9				
39	7950180161	Flatwasher, 0.50" ID	8				

**WRECKER BOOM ASSEMBLY - 1001158540 - W/AUXILIARY WINCH**

**EXTENSION CYLINDER ASSEMBLY - 7320000085**

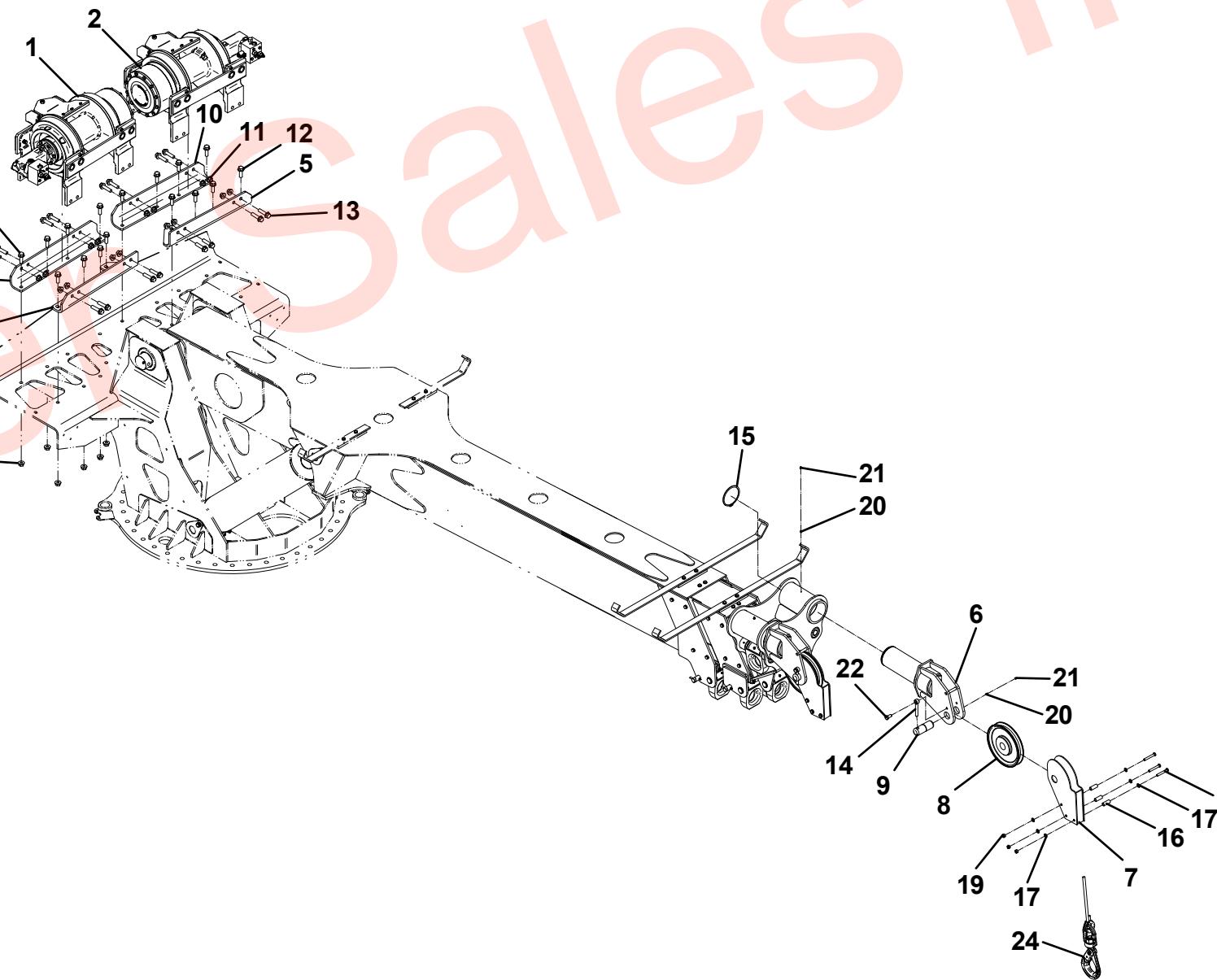
ITEM	PART NO.	DESCRIPTION	QTY
1	83304143	Seal, Wiper	1
2	9796250084	Seal, Wiper	1
3	9796250071	Seal	1
4	70050556	Seal	1
5	70050557	Seal, "O"Ring	1
6	70050558	Seal, "O"Ring	1
7	9754250009	Ring, Back-up	1
8	70050559	Seal, "O"Ring	2
9	9754250054	Ring, Back-up	1
10	9796250058	Seal, "O"Ring	1
11	9796250149	Seal, "O"Ring	1
12	70050560	Seal, "O"Ring	2
13	70050561	Seal	2
14	70050562	Seal	1
15	70050563	Seal	1
16	70050564	Seal	1
17	70050565	Seal	1
18	70050566	Seal, "O"Ring	2
19	9754250014	Ring, Wear	4
20	83304181	Ring, Wear	2
21	83304140	Ring, Wear	3
22	70050568	Ring, Wear	3
23	9754250055	Ring, Wear	5
24	70050569	Kit, Seal	1
25	70050570*	Seal, "O"Ring	1
26	70021774	Setscrew	4
27	70050572	Locknut	2
28	7005365	Plug, Port	2
29	70021648	Plug, Port	4
30	7023593	Plug, Port	5
31	70050574	Valve, Check	1
32	70050575	Valve, Counterbalance	1
33	70050576	Valve, Relief	1
34	70050577	Valve, Check	1
35	70050578	Valve, Directional	1
36	70050579	Assembly, Tube	1
37	70050580	Assembly, Rod-Tube	1
38	70050581	Assembly, Rod-Tube	1
39	70050582	Head	1

\* Not Part of Seal Kit

**EXTENSION CYLINDER ASSEMBLY - 7320000085**

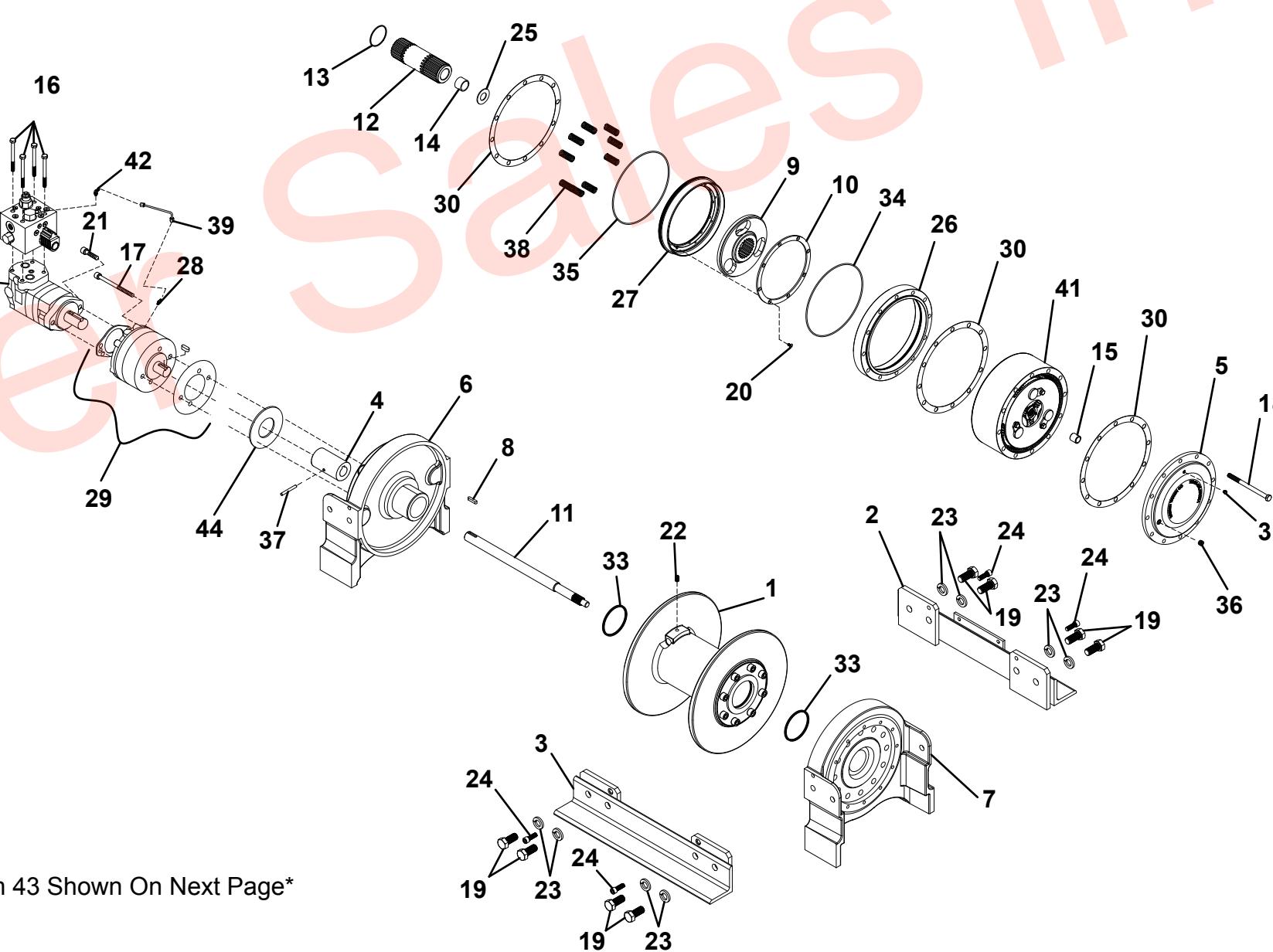
**WINCH INSTALLATION - 2 SPEED 50K RAMSEY**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001128323	Winch, Ramsey 50K - LH	1
2	1001129495	Winch, Ramsey 50K - RH	1
3	1001129540	Angle, Winch Front - LH	1
4	1001129541	Angle, Winch Rear - LH	1
5	1001129543	Angle, Winch Rear - RH	1
6	1001169618	Sheave Support Weldment	2
7	3249000037	Cable Guide Weldment	2
8	7809000018	Sheave, 12" Dia.	2
9	1001170037	Pin	2
10	1001129542	Angle, Winch Front - RH	1
11	7660222308	Locknut, 0.75"-10NC	32
12	7118221816	Capscrew, 0.75"-10NC x 2.25"	16
13	7118222416	Capscrew, 0.75"-10NC x 3.00"	16
14	3841258	Rod	2
15	7754000083	Retaining Ring	2
16	4831000108	Spacer	6
17	7950180153	Flatwasher, 0.50" ID	12
18	7115182850	Capscrew, 0.50"-13NC x 3.50"	6
19	7660182601	Locknut, 0.50"-13NC	6
20	7440030000	Grease Fitting	4
21	7253000002	Cap, Grease Fitting	4
22	7115201050	Bolt, 0.63"-11NC x 1.25"	2
23	0100011	Thread Locker	A/R
24	7248000149	Cable, 0.75" x 250'	2
	1001135127	Cable, 0.75" x 250' w/ Swivel Hook	2

**WINCH INSTALLATION - 2 SPEED 50K RAMSEY**

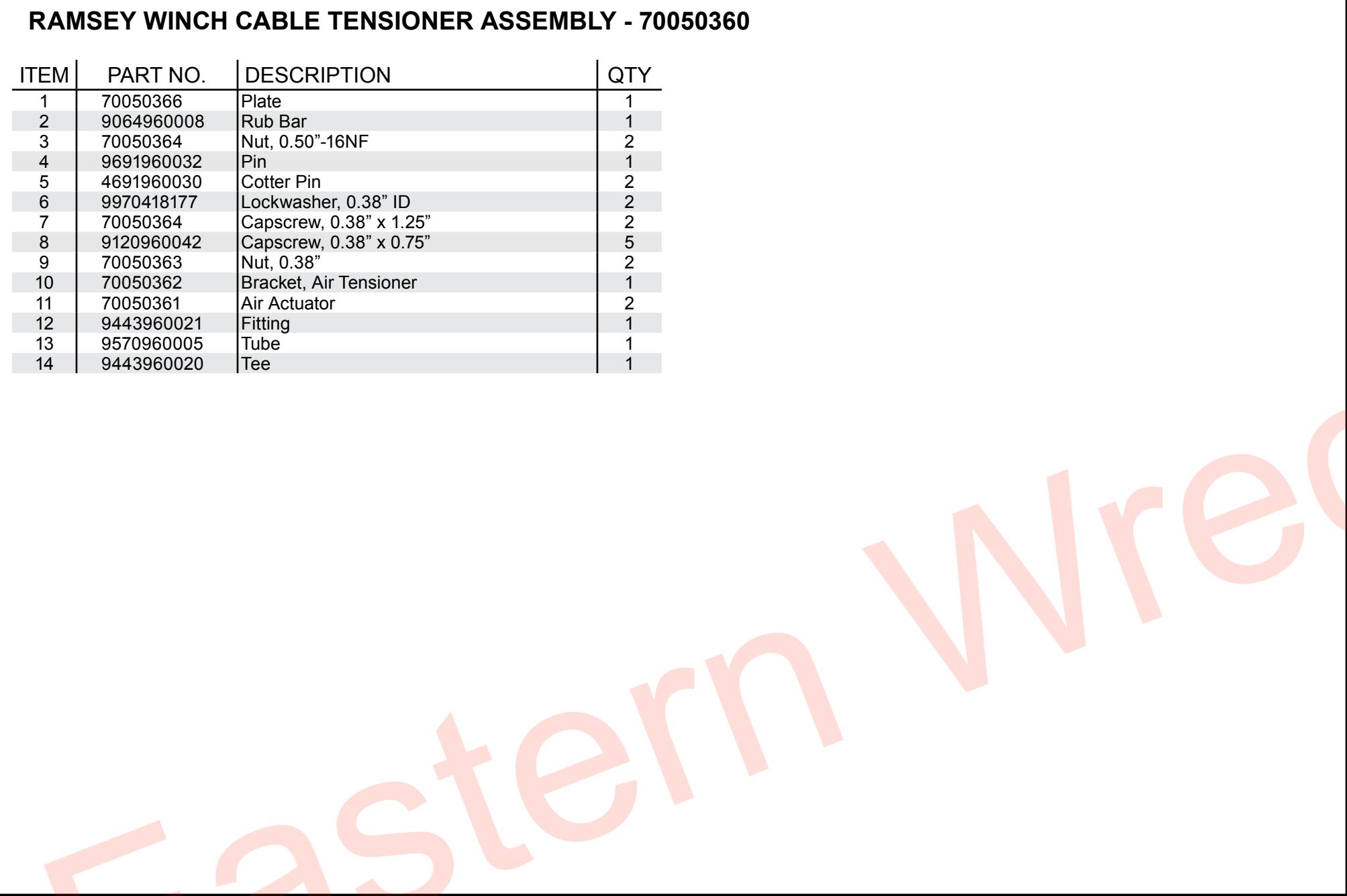
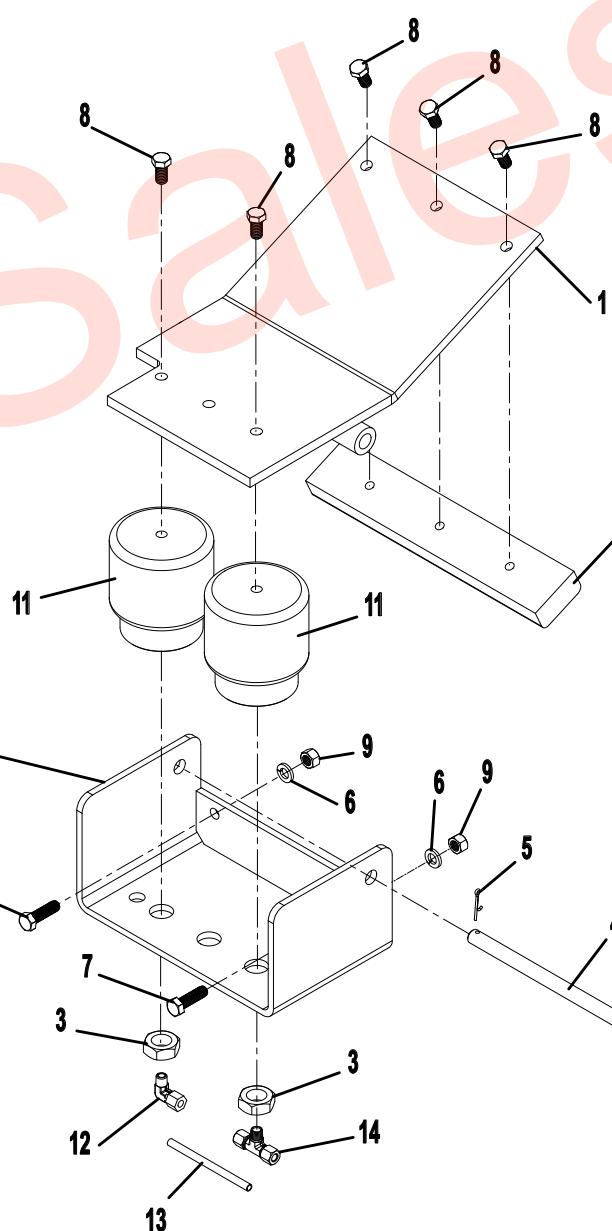
**RAMSEY 50K WINCH - 1001128323 & 1001129495**

ITEM	PART NO.	DESCRIPTION	QTY
1	9970960027	Drum Assembly	1
2	70050332	Angle	1
3	70050333	Angle	1
4	70050334	Coupling	1
5	70050335	Gear Housing Cover	1
6	70050336	Bearing	1
7	70050337	Bearing	1
8	70050338	Key	1
9	70050339	Clutch	1
10	70050340	Clutch Retaining Key	1
11	70050341	Input Shaft	1
12	70050342	Output Coupling	1
13	70050343	Spacer	1
14	70050344	Bushing	1
15	70050345	Bushing	1
16	7105163650	Capscrew, 0.38"-24NF x 4.00"	4
17	70050346	Capscrew, 0.50"-13NC x 3.50"	2
18	7115185650	Capscrew, 0.50"-13NC x 7.00"	12
19	7115241650	Capscrew, 0.88"-9NC x 2.00"	8
20	70050347	Capscrew, 0.25"-20NC x 0.50"	8
21	9120960024	Capscrew, 0.50"-13NC x 1.25"	2
22	7785181200	Setscrew, 0.50"-13NC x 0.75"	1
23	9949960044	Lockwasher, 0.88" ID	8
24	9120960054	Bolt, 0.50" x 0.75"	4
25	70050348	Thrust Washer	1
26	70050349	Cylinder	1
27	70050350	Piston	1
28	9443960019	Fitting	1
29	70050351	Brake Assembly	1
30	9796960157	Gasket	3
31	9970456008	Relief Fitting	1
32	70050352	Motor	1
33	9796960159	Quad Ring	2
34	70050353	O-Ring	1
35	70050354	O-Ring	1
36	70050355	Pipe Plug	1
37	70050356	Pin	1
38	70050357	Spring	9
39	70050358	Tube Assembly	1

**RAMSEY 50K WINCH - 1001128323 & 1001129495**

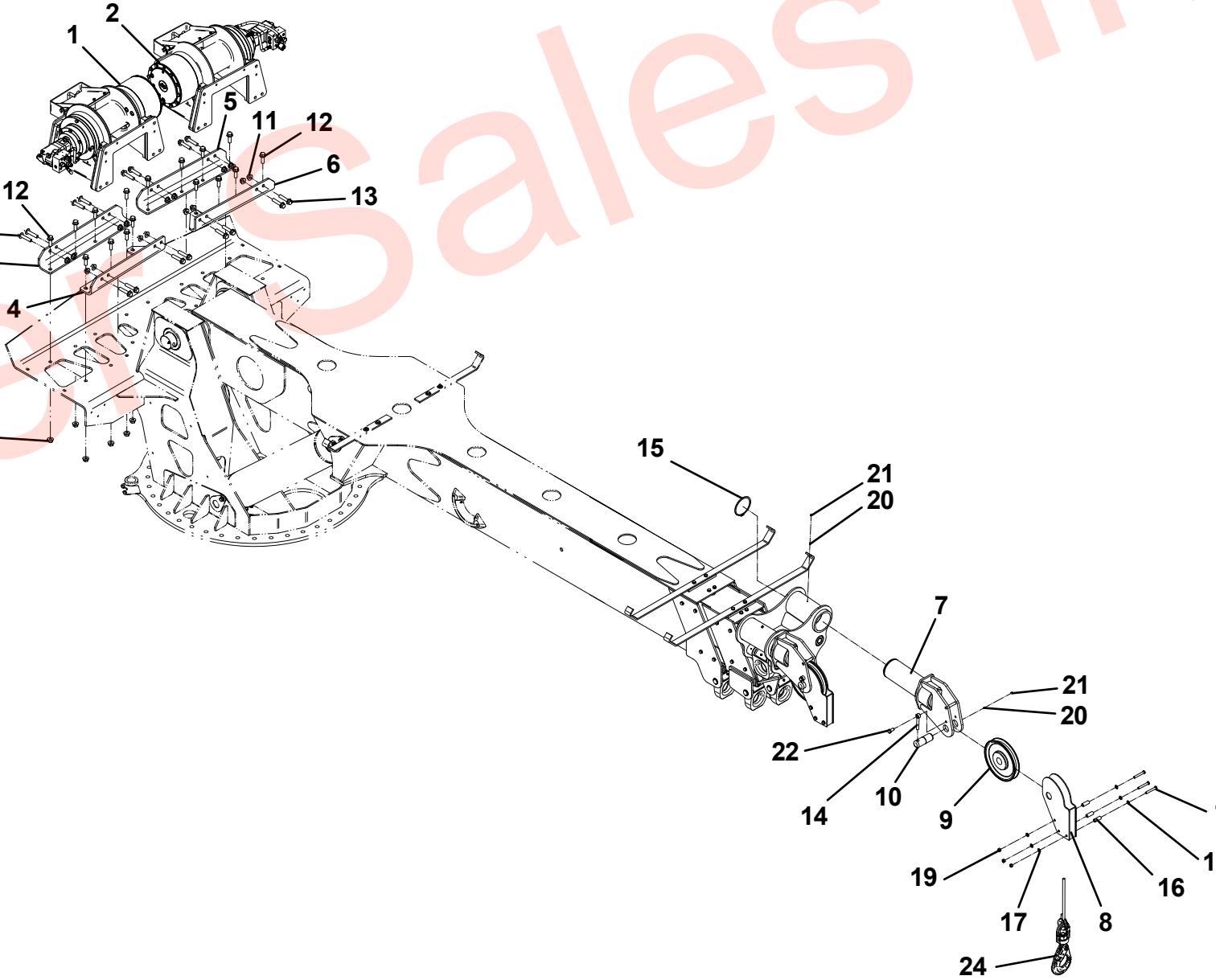
**RAMSEY WINCH CABLE TENSIONER ASSEMBLY - 70050360**

ITEM	PART NO.	DESCRIPTION	QTY
1	70050366	Plate	1
2	9064960008	Rub Bar	1
3	70050364	Nut, 0.50"-16NF	2
4	9691960032	Pin	1
5	4691960030	Cotter Pin	2
6	9970418177	Lockwasher, 0.38" ID	2
7	70050364	Capscrew, 0.38" x 1.25"	2
8	9120960042	Capscrew, 0.38" x 0.75"	5
9	70050363	Nut, 0.38"	2
10	70050362	Bracket, Air Tensioner	1
11	70050361	Air Actuator	2
12	9443960021	Fitting	1
13	9570960005	Tube	1
14	9443960020	Tee	1

**RAMSEY WINCH CABLE TENSIONER ASSEMBLY - 70050360**

**WINCH INSTALLATION - 2 SPEED 50K DP**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001145566	Winch, DP 50K - LH	1
2	7970000169	Winch, DP 50K - RH	1
3	1001145521	Angle, Winch Front - LH	1
4	1001145522	Angle, Winch Rear - LH	1
5	1001145523	Angle, Winch Front - LH	1
6	1001145524	Angle, Winch Front - RH	1
7	1001169618	Sheave Support Weldment	2
8	3249000037	Cable Guide Weldment	2
9	7809000018	Sheave, 12" Dia.	2
10	1001170037	Pin	2
11	7660222308	Locknut, 0.75"-10NC	32
12	7118221816	Capscrew, 0.75"-10NC x 2.25"	16
13	7118222816	Capscrew, 0.75"-10NC x 3.50"	16
14	3841258	Rod	2
15	7754000083	Retaining Ring	2
16	4831000108	Spacer	6
17	7950180153	Flatwasher, 0.50" ID	12
18	7115182850	Capscrew, 0.50"-13NC x 3.50"	6
19	7660182601	Locknut, 0.50"-13NC	6
20	7440030000	Grease Fitting	4
21	7253000002	Cap, Grease Fitting	4
22	7115201050	Bolt, 0.63"-11NC x 1.25"	2
23	0100011	Thread Locker	A/R
24	7248000149	Cable, 0.75" x 250'	2
	1001135127	Cable, 0.75" x 250' w/ Swivel Hook	

**WINCH INSTALLATION - 2 SPEED 50K DP**

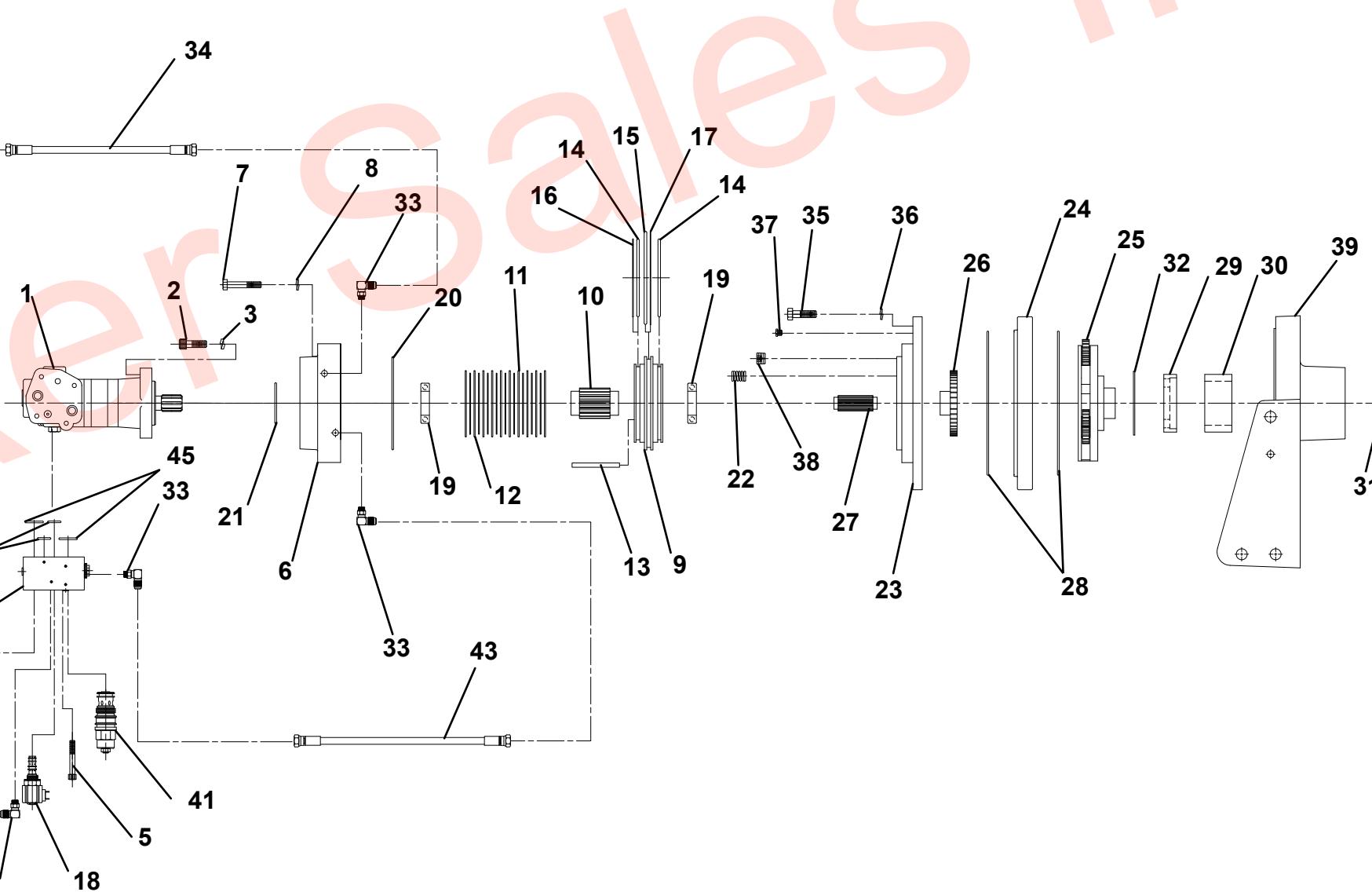
**DP WINCH 50K - MOTOR END INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	70050367	Motor, Hydraulic	1
2	7118181205	Capscrew, 0.50"-13NC x 1.50"	2
3	7950180800	Lockwasher, 0.50"	2
4	70050368	Valve, Counterbalance	1
5	70050370	Capscrew, 0.38"-24NF x 2.50"	4
6	9571960006	Housing, Brake Outer	1
7	7118172050	Capscrew, 0.44" x 2.50"	6
8	7950170000	Lockwasher, 0.44"	6
9	9698960008	Piston, Brake	1
10	9806960013	Shaft, Brake	1
11	**	Plate, Friction Disk	10
12	**	Plate, Brake Drive	9
13	9691960021	Pin	2
14	>	O-Ring, 5.38" ID	2
15	>	O-Ring, 6.50" ID	1
16	>	Ring, 5.28" ID	1
17	>	Ring, 6.25" ID	1
18	70050371	Cartridge, Valve	1
19	9082960013	Bearing	2
20	>	O-Ring, 6.75" ID	1
21	9796960090	O-Ring, 3.00" ID	1
22	**	Spring	12
23	7007960040	Adapter, Brake	1
24	9472960032	Gear, Ring 92 Teeth	1
25	9472960029	Carrier, Planetary Assembly	1
26	9472960033	Gear, Sun	1
27	9806960014	Shaft, Extension	1
28	9796960085	O-Ring, 10.50" ID	2
29	9706960027	Plate, Thrust - 45	1
30	9082960014	Bearing	1
31	9796960087	Seal, 3.25" ID	1
32	9754960029	Retainer Ring	1
33	7445040445	Adapter	3
34	70050372	Hose, 0.25" - R1 x 16.00"	1
35	7115182250	Capscrew, 0.50"-13NC x 2.75"	4
36	7950180000	Lockwasher, 0.50" ID	4
37	9183960001	Vent	1
38	9701960010	Plug	2
39	9177960002	Support, Motor End	1

\* Item Not Shown

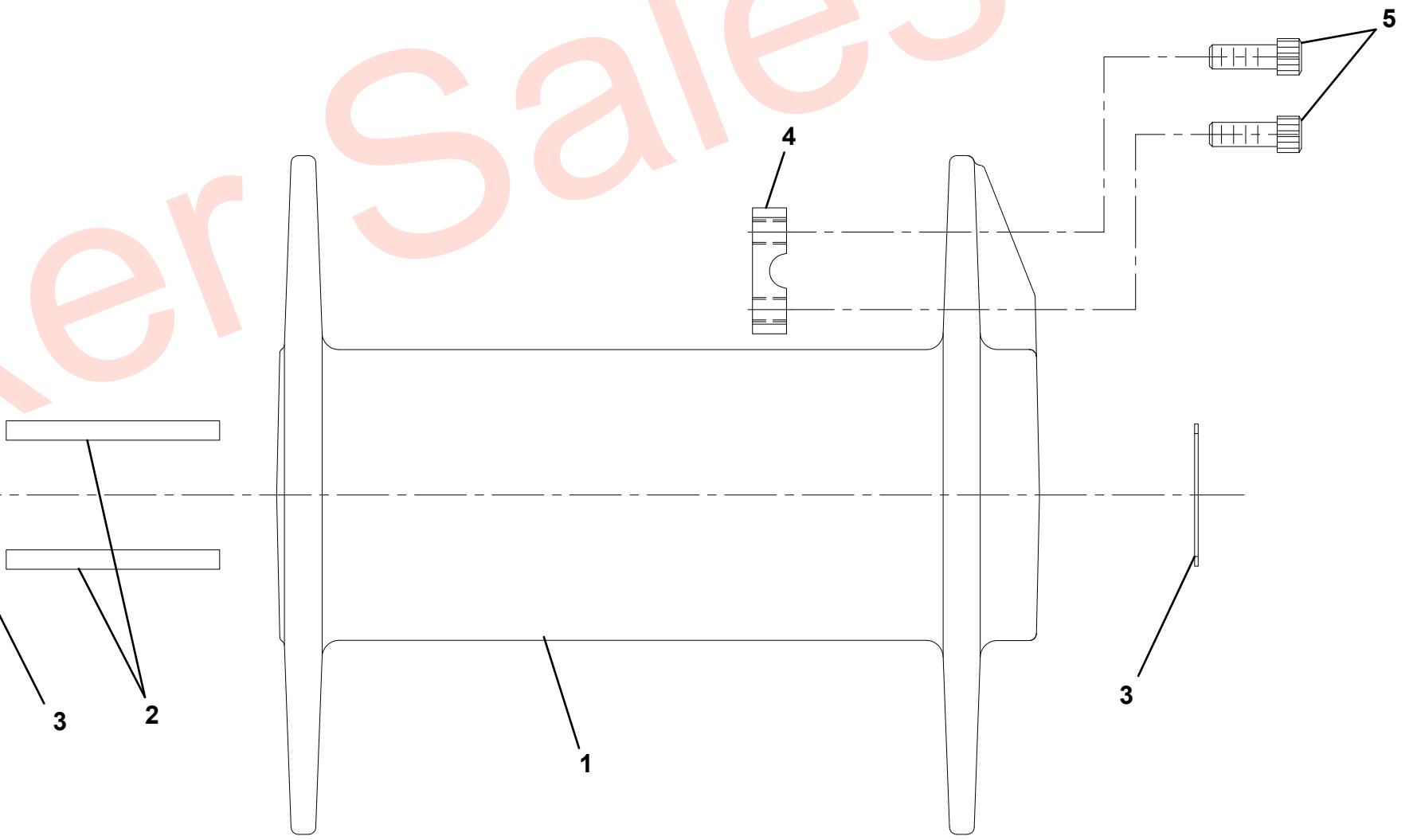
\*\* Items Sold Only As Part Of Kit - 9577960119

&gt; Items Sold Only As Part Of Kit - 9577960120

**DP WINCH 50K - MOTOR END INSTALLATION**

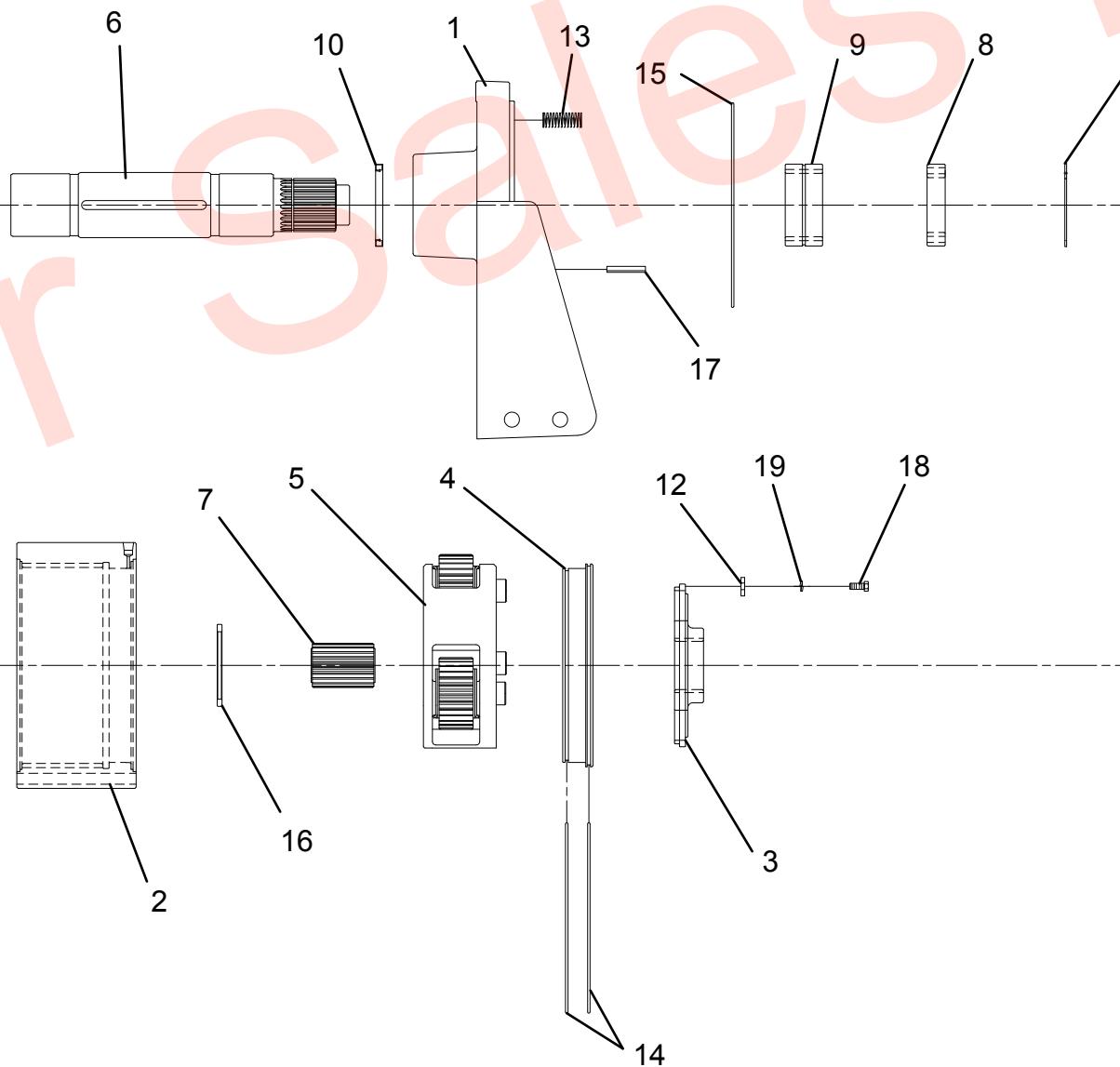
**DP WINCH 50K - DRUM INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	70050381	Drum, Winch	1
2	70050382	Key, Shaft Output	2
3	70050383	Retaining Ring	2
4	9280960002	Clip, Cable - Threaded	1
5	7110201823	Capscrew, 0.63"-11NC x 2.25"	2

**DP WINCH 50K - DRUM INSTALLATION**

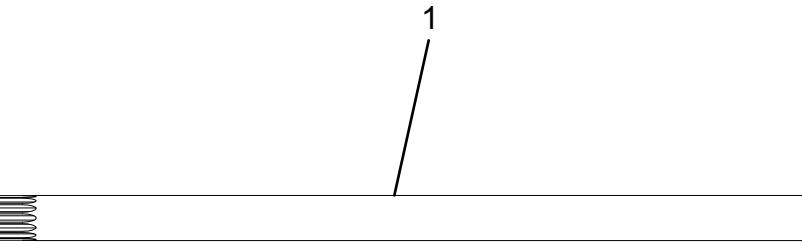
**DP WINCH 50K - GEAR END INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	9177960001	Support, Gear End	1
2	9472960036	Gear, Ring - 103 Teeth	1
3	9281960004	Clutch	1
4	9698960009	Piston	1
5	9472960030	Carrier Assembly	1
6	9806960015	Shaft, Output	1
7	70050380	Gear, Sun	1
8	9154960027	Ring, Thrust	1
9	9082960014	Bearing, Roller	1
10	9796960087	Seal	1
11	9754960029	Retaining Ring	1
12	9698960010	Piston Retainer	3
13	9843960025	Spring	3
14	9796960093	O-Ring, 9.75" ID	2
15	9796960085	O-Ring, 10.50" ID	1
16	9949960013	Washer, Nylon 4.25" OD	1
17	7690153245	Pin	2
18	7115150650	Capscrew, 0.32"-18NC x 0.75"	6
19	9949960050	Lockwasher, 0.32" ID	6

**DP WINCH 50K - GEAR END INSTALLATION**

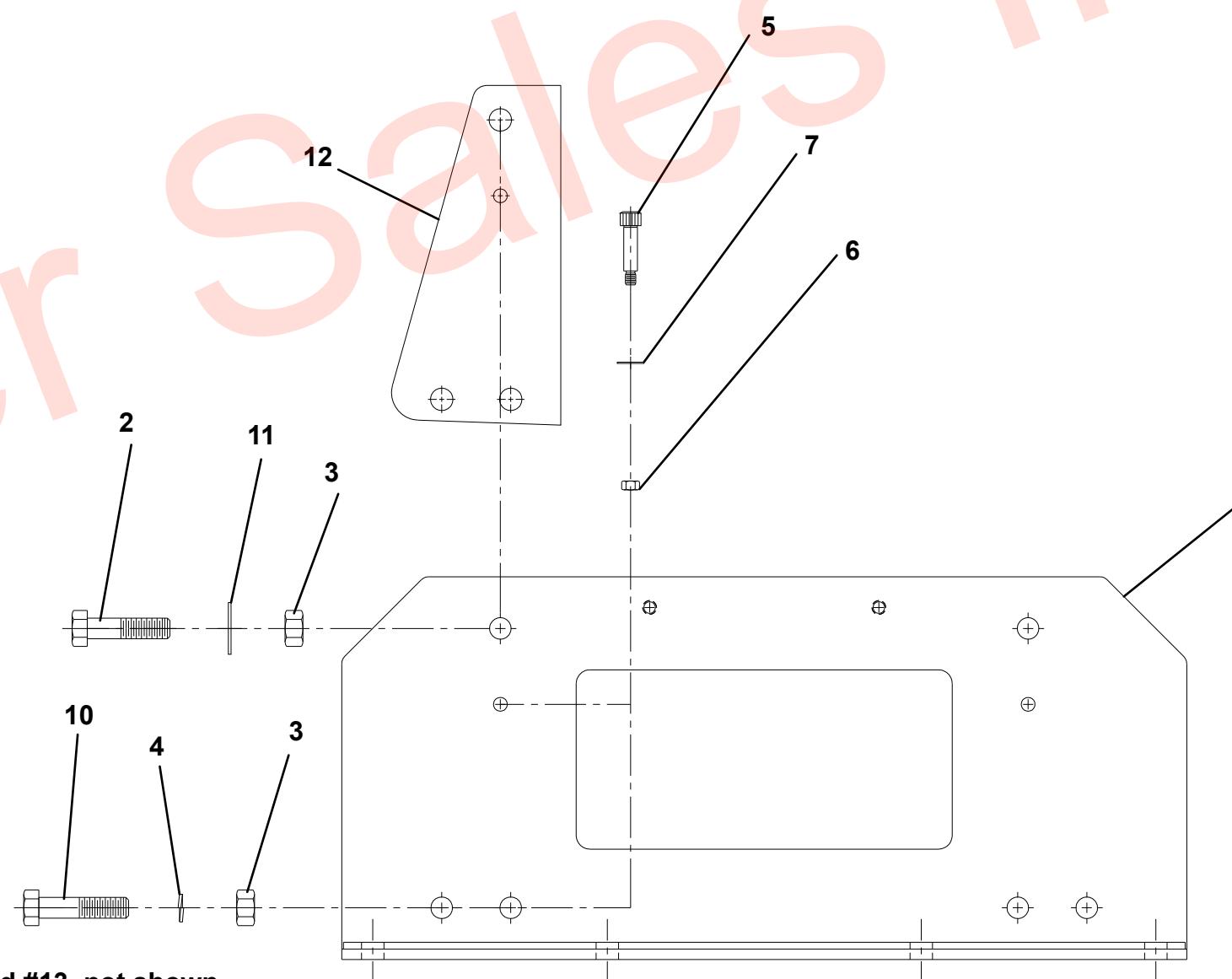
**DP WINCH 50K - INPUT SHAFT**

ITEM	PART NO.	DESCRIPTION	QTY
1	70050374	Input Shaft	1

**DP WINCH 50K - INPUT SHAFT**

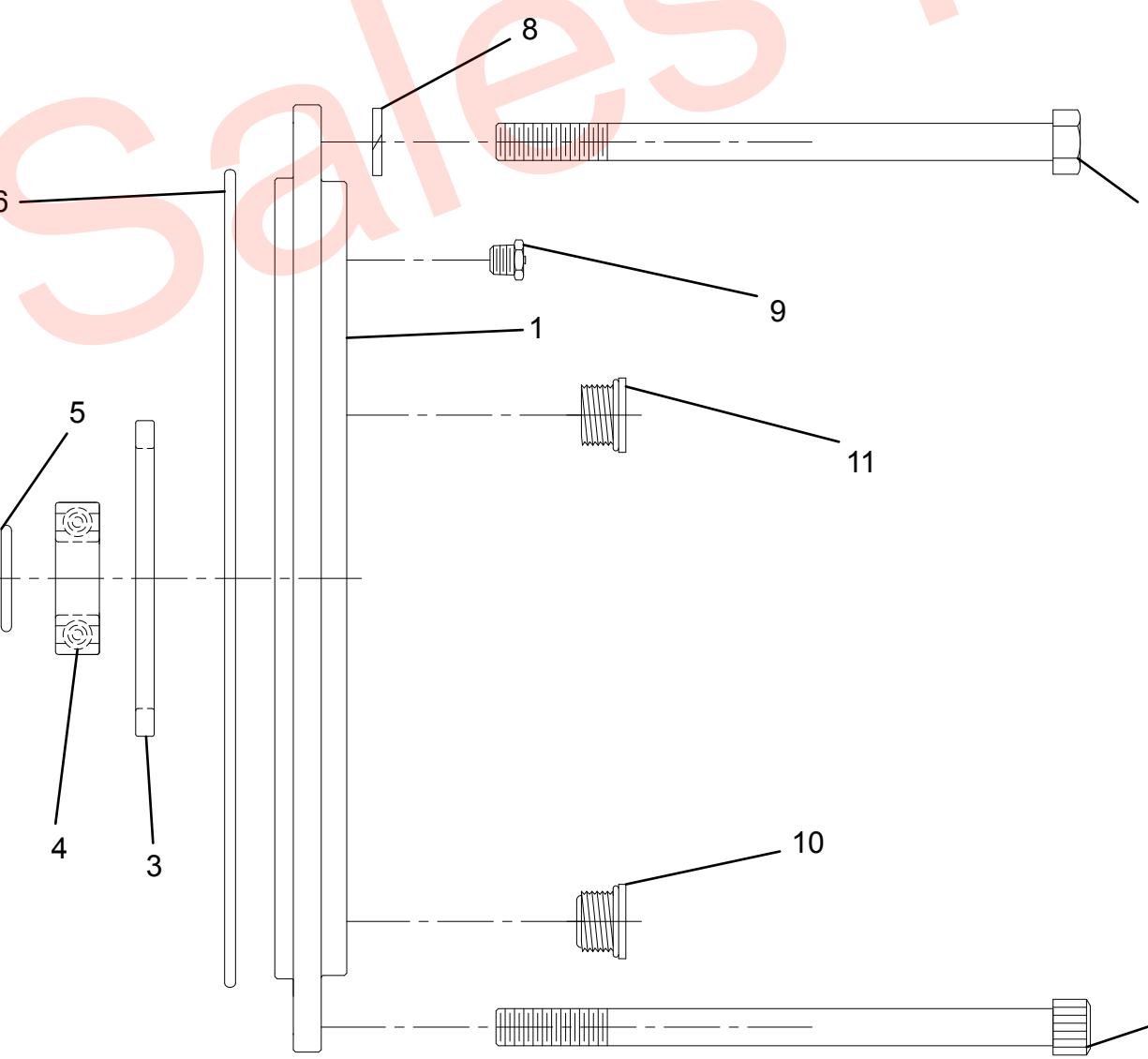
**DP WINCH 50K - BASE MOUNT INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	9073960002	Base, Mount	2
2	7115222450	Capscrew, 0.75"-10NC x 3.00"	4
3	7660220001	Nut, 0.75"-10NC	12
4	7950220000	Lockwasher, 0.75" ID	8
5	9120960020	Bolt, 0.50" x 2.00"	4
6	9661960033	Nut, 0.38"-16NC	4
7	9949960051	Flatwasher, 0.38" ID	4
8	70050384	Plate, Winch Information	1
9	70050147	Rivet	4
10	7115222650	Capscrew, 0.75"-10NC x 3.25"	8
11	7950220151	Flatwasher, 0.75" ID	4
12	9831960007	Spacer	4
13	9577960113	Kit, Cable Hold Down	1

**DP WINCH 50K - BASE MOUNT INSTALLATION**

**DP WINCH 50K - GEAR END COVER INSTALLATION**

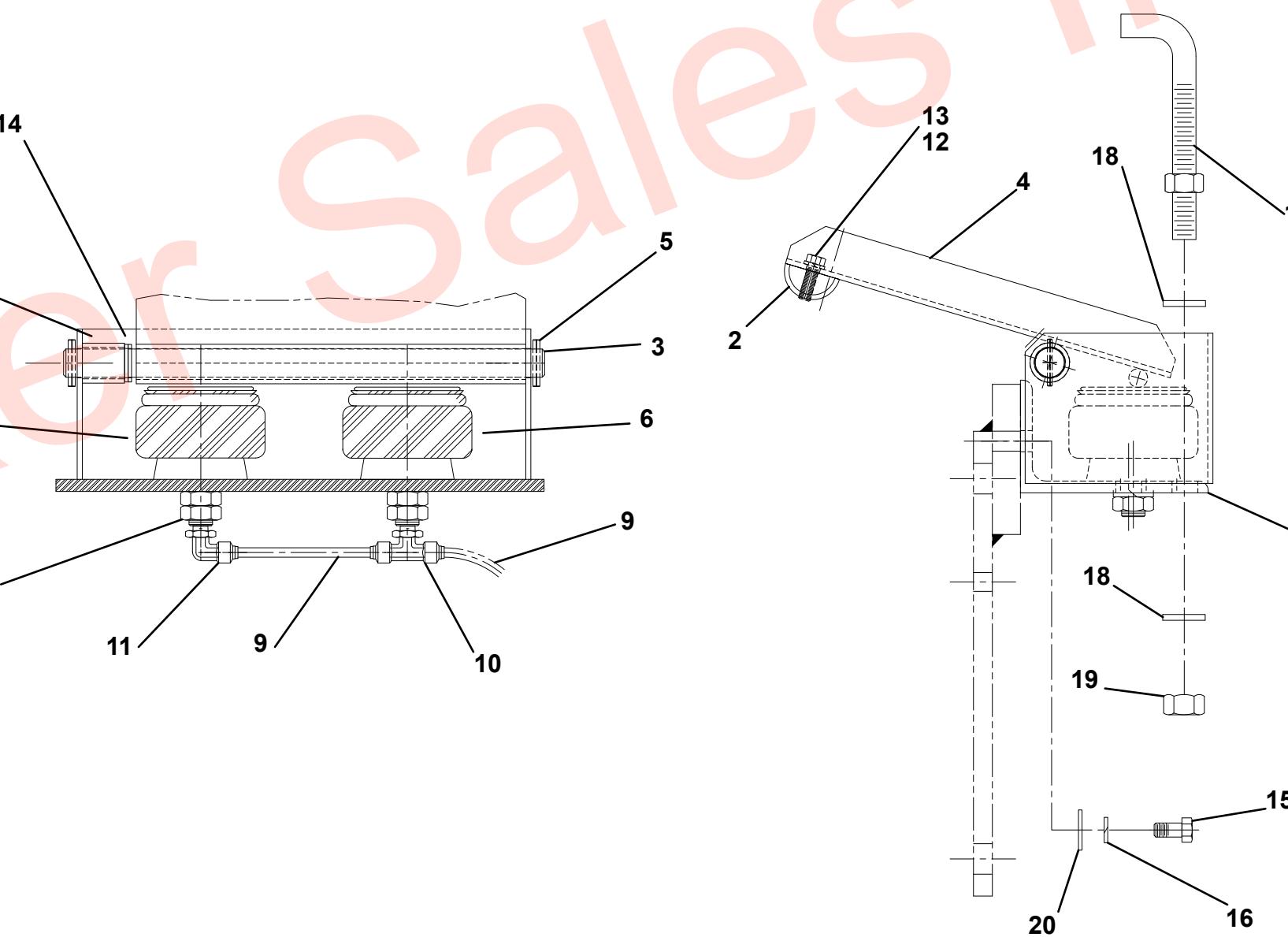
ITEM	PART NO.	DESCRIPTION	QTY
1	70050375	Cover	1
2	70050376	Gear, Sun Primary 29 Teeth	1
3	9949960013	Washer, Thrust - Nylon 4.25" OD x .25"	1
4	9082960015	Bearing	1
5	9754960030	Retaining Ring	1
6	9796960085	O-Ring, 10.50" ID	1
7	70050377	Capscrew, 0.50"-13NC x 7.50"	10
8	7950180000	Lockwasher, 0.50" ID	10
9	9183960001	Vent	1
10	9701960012	Plug	1
11	9701960011	Plug	1
12	70050378	Carrier Assembly	1
13	70050379	Capscrew, 0.50"-13NC x 7.00"	2

**DP WINCH 50K - GEAR END COVER INSTALLATION**

**DP WINCH 50K - CABLE HOLD DOWN KIT**

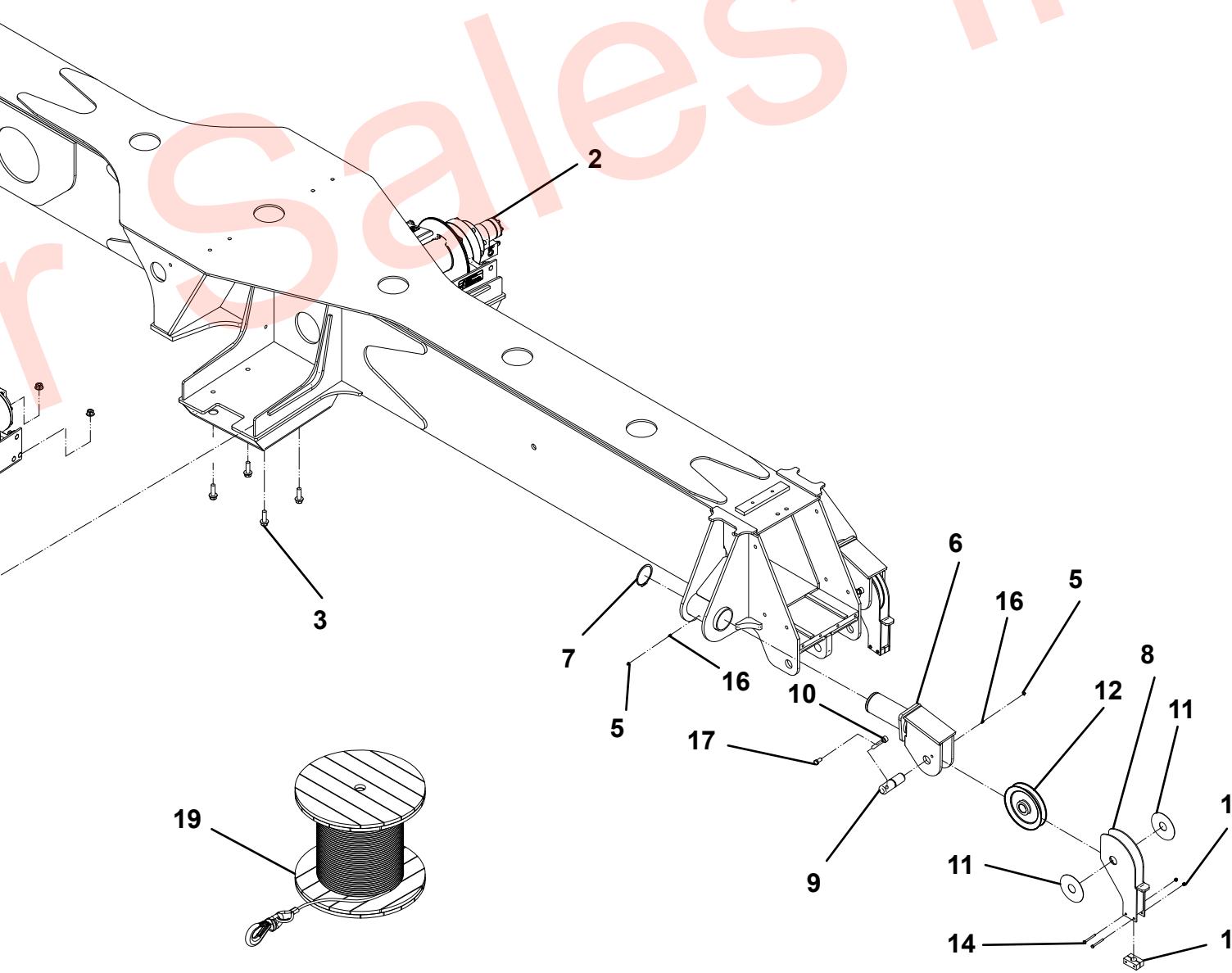
ITEM	PART NO.	DESCRIPTION	QTY
1	9178960011	Bracket	1
2	9064960001	Bar	1
3	9691960019	Pin	1
4	9020960002	Arm, Pivot	1
5	9690960039	Cotter Pin	2
6	9843960023	Spring, Air Cushion	2
7	9831960009	Spacer	1
8	7660200200	Nut, 0.63"-11NC	4
9	9912960010	Tubing	1
10	7443000205	Adapter	1
11	7443000204	Adapter	1
12	9949960050	Lockwasher, 0.63" ID	3
13	9120960063	Capscrew, 0.63"-18NC x 1.00"	3
14	9949960012	Washer	2
15	7115181650	Capscrew, 0.50"-13NC x 1.00"	2
16	7950180000	Lockwasher, 0.50" ID	2
17	9120960019	Bolt, 0.63" x 6.50" 90 Degree	1
18	7950200151	Flatwasher, 0.63" ID	2
19	7660200001	Nut, 0.63"-11NC	1
20	70050385	Flatwasher, 0.50" ID	2

All items can be purchased as Assembly 9577960113

**DP WINCH 50K - CABLE HOLD DOWN KIT**

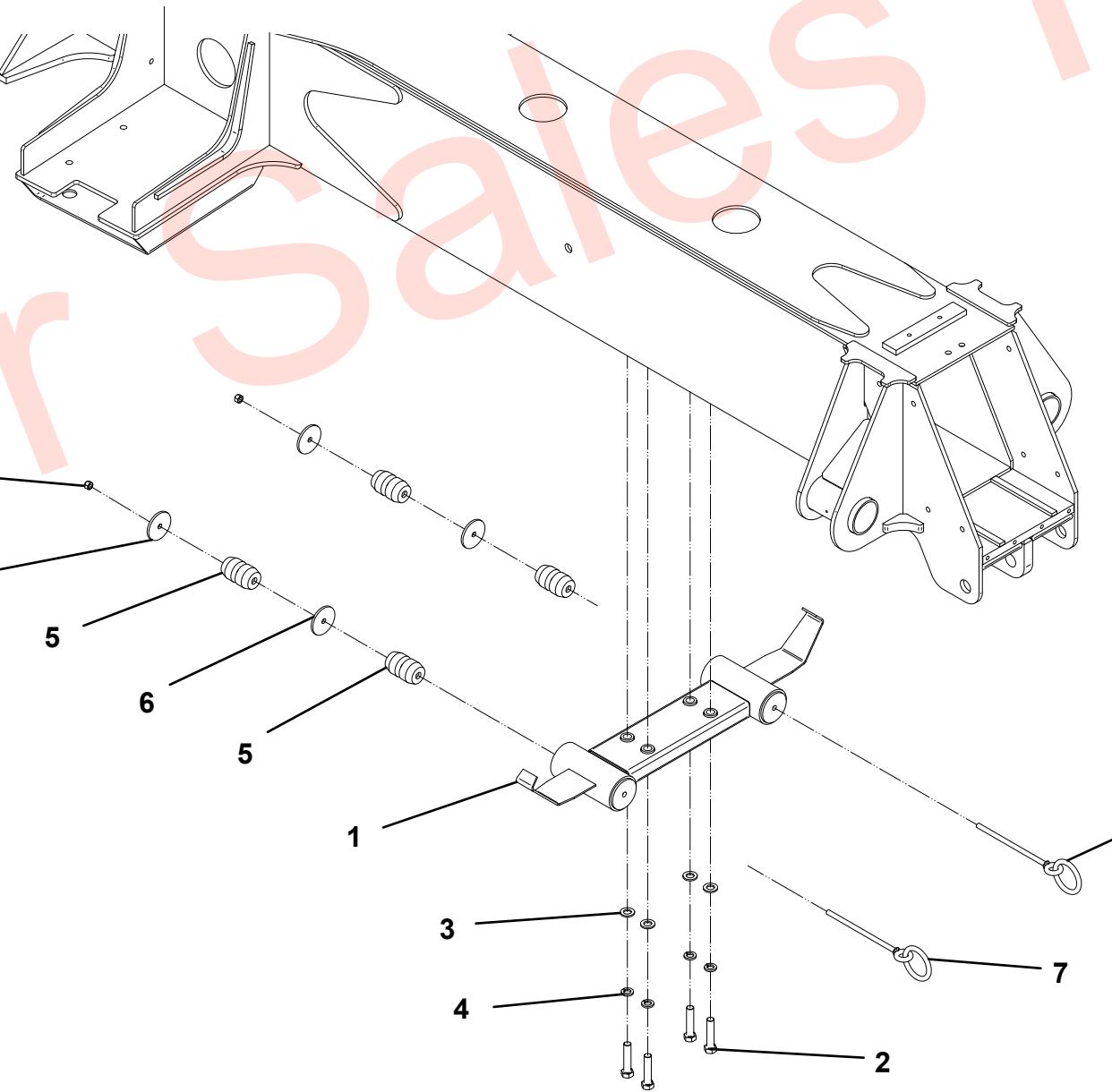
**AUXILIARY WINCH INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001157913	Winch, DP20	1
2	1001157914	Winch, DP20	1
3	7118201616	Capscrew, 0.63"-11NC x 2.00"	8
4	7661000018	Nut, 0.63"-11NC	8
5	7253000002	Grease Fitting Cap	4
6	1001169617	Sheave Support Weldment	2
7	7754000049	Retaining Ring	2
8	3249000012	Cable Guide Weldment	2
9	1001169893	Pin	2
10	3841203	Rod	2
11	4949000045	Washer, 1.53" ID X 0.06"	4
12	1001157954	Sheave	2
13	4249000002	Cable Guide	4
14	7115142050	Capscrew, 0.25"-20NC x 2.50"	4
15	7660142604	Locknut, 0.25"-20NC	4
16	7440030000	Grease Fitting	4
17	7115180850	Capscrew, 0.50"-13NC X 1.00"	2
18	100011	Thread Locker	A/R
19	1001159354	Wire Rope w/ Swivel	2

**AUXILIARY WINCH INSTALLATION**

**AUXILIARY WINCH CABLE TIE-BACK INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001158198	Bracket, Cable Tie-Back	1
2	7118222850	Capscrew, 0.75"-10NC x 3.50"	4
3	7950220141	Flatwasher, 0.75" ID	4
4	7950220000	Lockwasher 0.75"ID	4
5	7189000014	Spring	4
6	4831000115	Spacer	4
7	7120000053	Ring Bolt, 0.50" - 13UNC x 10.00"	2
8	7660182601	Locknut, 0.50"-13NC	2

**AUXILIARY WINCH CABLE TIE-BACK INSTALLATION**

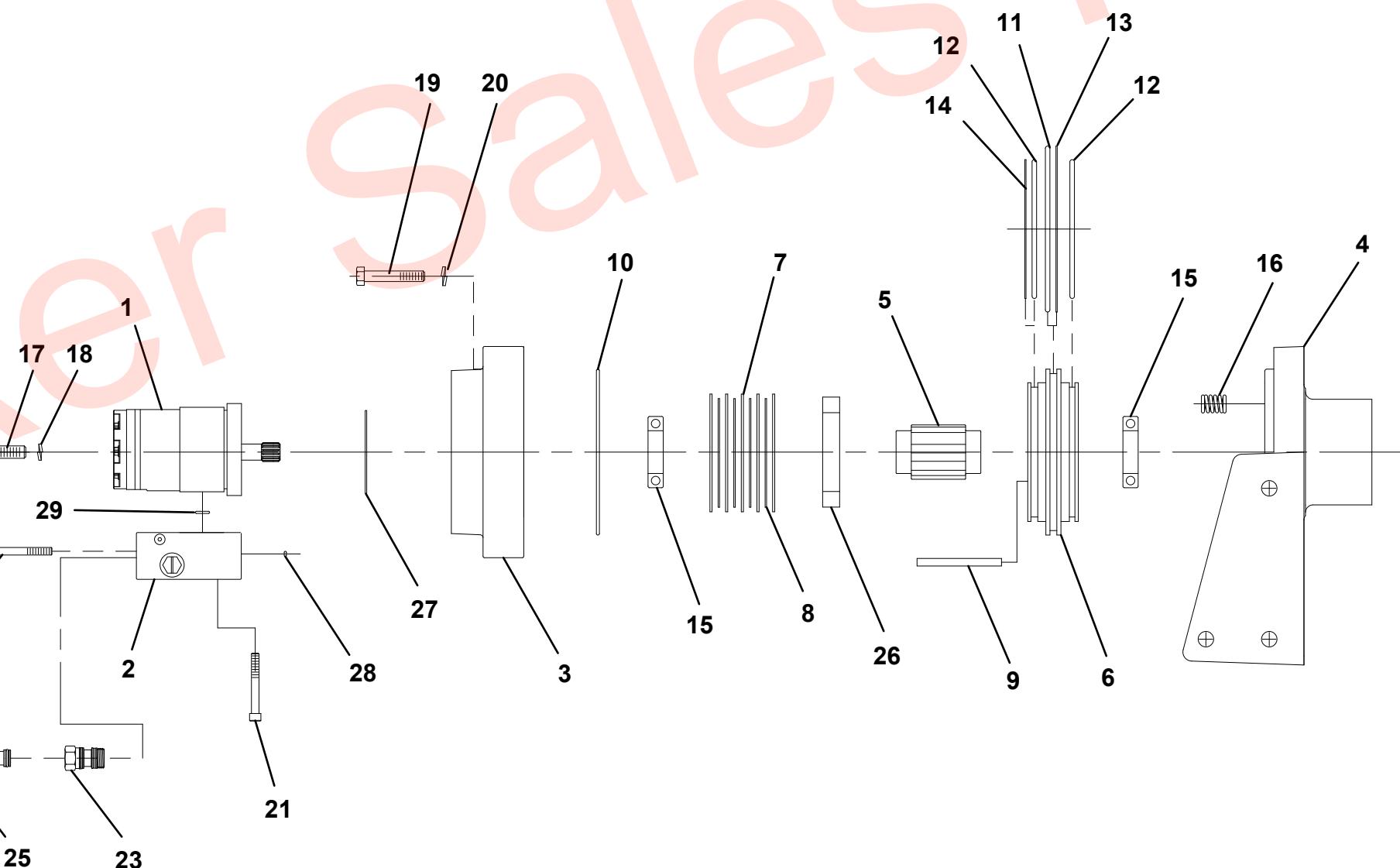
**DP WINCH 20K - MOTER END INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	70050113	Motor, Hydraulic	1
2	70050739	Valve, Counterbalance	1
3	70050741	Housing, Brake	1
4	70050742	Support, Motor End	2
5	70050743	Shaft, Brake	1
6	9698960008	Piston, Brake	1
7	**	Plate, Friction Disc	5
8	**	Plate, Brake Drive	4
9	9691960021	Pin	2
10	<	O-Ring, 7.00" ID	1
11	<	O-Ring, 6.50" ID	1
12	<	O-Ring, 5.38" ID	2
13	<	Ring, 6.25" ID	1
14	<	Ring, 5.28" ID	1
15	9082960013	Bearing	2
16	**	Spring	12
17	70050127	Capscrew, 0.50"-13NC x 1.25"	2
18	7950180800	Lockwasher, 0.50"	2
19	7118172050	Capscrew, 0.44"-14NC x 2.50"	6
20	7950170000	Lockwasher, 0.44"	6
21	70050744	Capscrew, 0.31"-18NC x 2.00"	4
22	70050126	Capscrew, 0.25"-20NC x 4.50"	1
23	70050132	Plug	1
24	70050401*	Tag, Warning	1
25	70050129	Cartridge, Counterbalance	1
26	9831960008	Spacer, Brake	1
27	9796960145	O-Ring, 3.25" ID	1
28	70050115	O-Ring, 0.13" ID	1
29	70050740	O-Ring, 0.69" ID	2

\* Item Not Shown

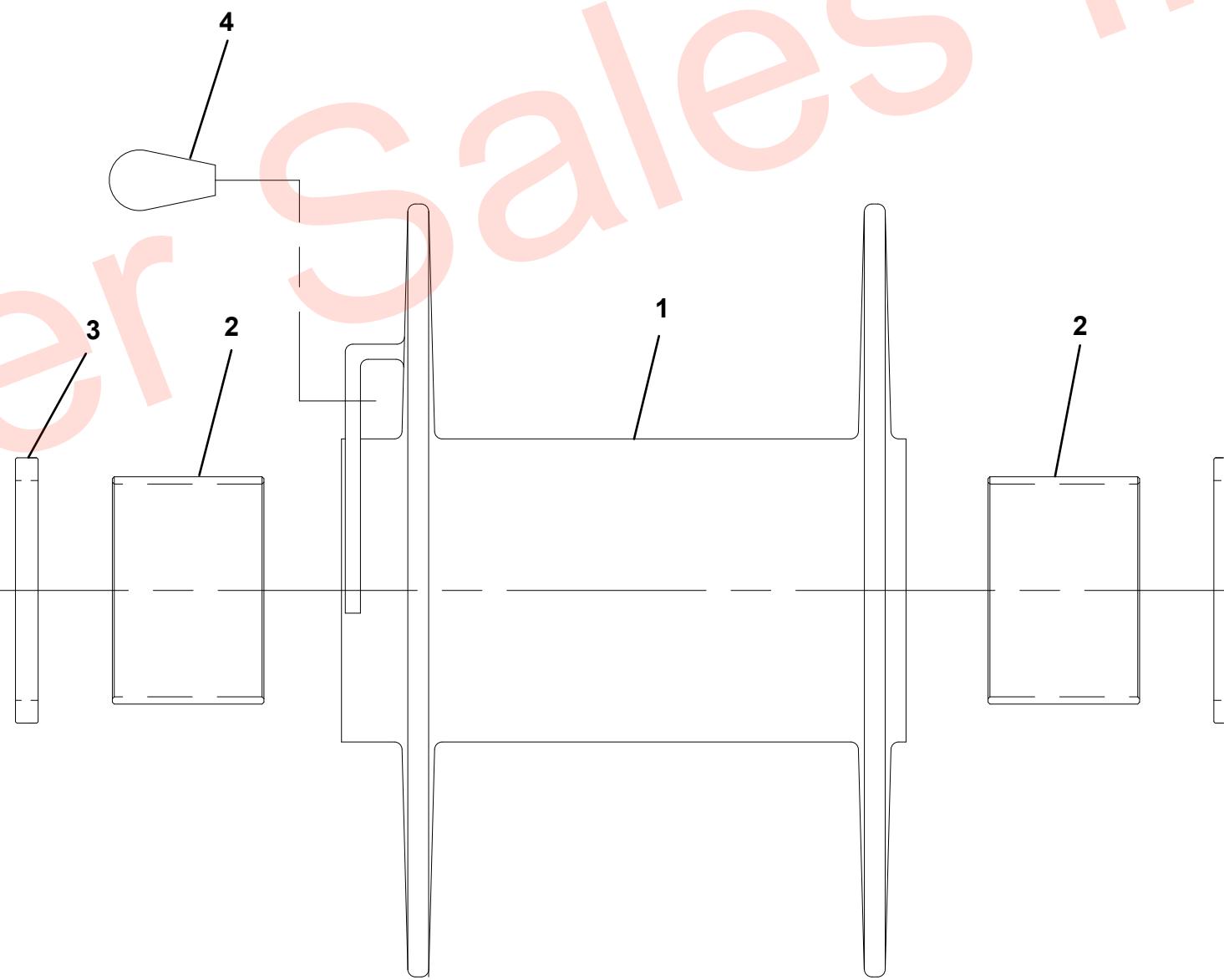
\*\* Available only in Kit 9577960119

&lt; Available only in Kit 9577960120

**DP WINCH 20K - MOTOR END INSTALLATION**

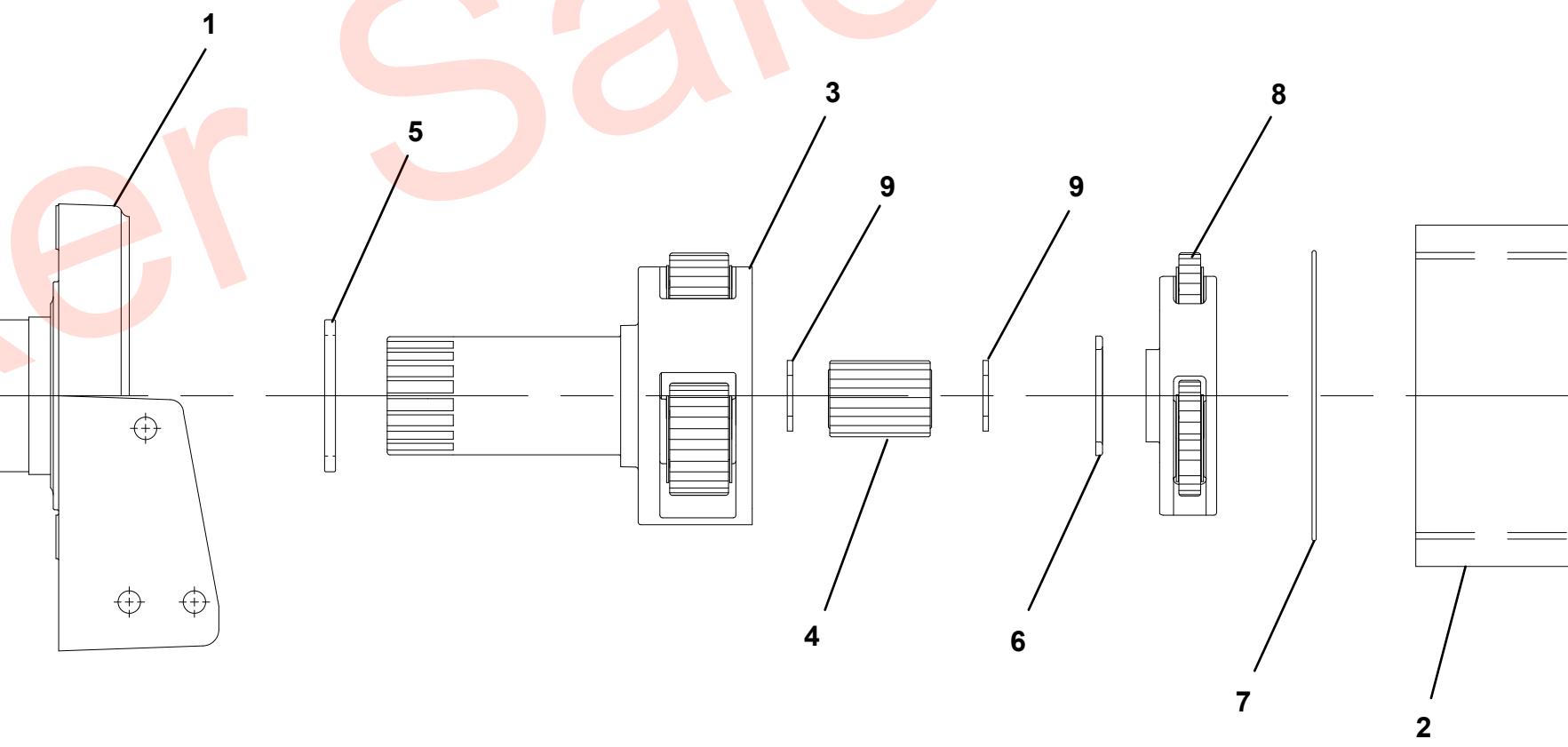
**DP WINCH 20K - DRUM INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	70050745	Drum	1
2	70050746	Bearing	2
3	70050747	Seal, 3.63" ID	2
4	70050749	Wedge, 0.56"	1

**DP WINCH 20K - DRUM INSTALLATION**

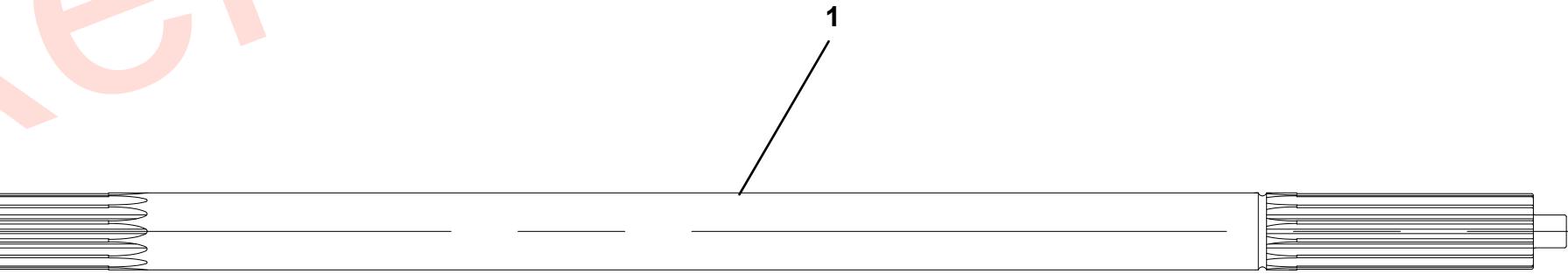
**DP WINCH 20K - GEAR END INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	70050750	Support, Gear End	1
2	70050139	Gear, Ring	1
3	70050751	Carrier Assembly	1
4	70050140	Gear	1
5	70050752	Washer, Thrust - Nylon	1
6	9949000056	Washer, Thrust - Nylon	1
7	9796960188	O-Ring, 6.50" ID	1
8	70050141	Carrier	1
9	9949960057	Washer, Thrust	2

**DP WINCH 20K - GEAR END INSTALLATION**

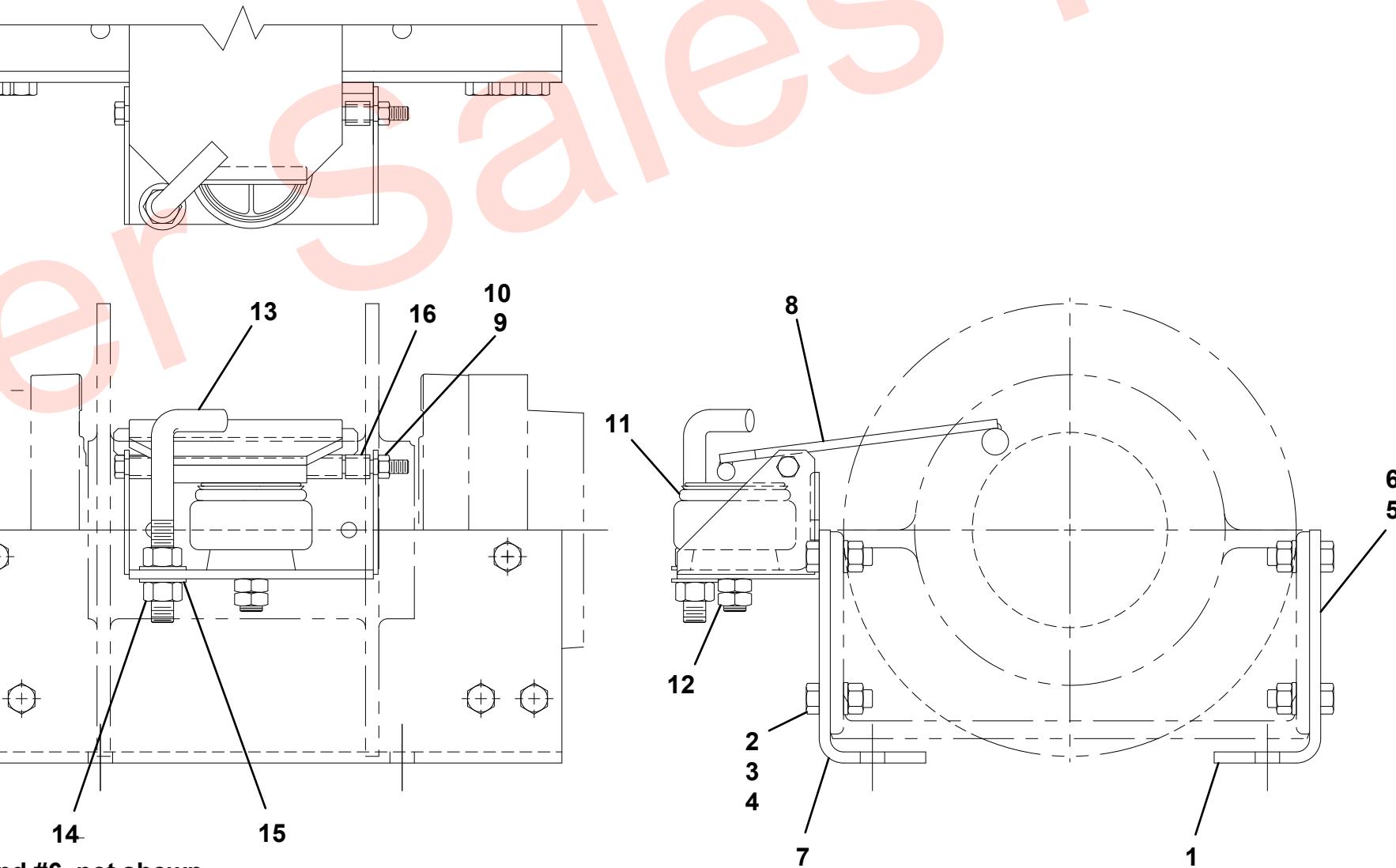
**DP WINCH 20K - INPUT SHAFT INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	70050753	Input Shaft	1

**DP WINCH 20K - INPUT SHAFT INSTALLATION**

**DP WINCH 20K - BASE MOUNT INSTALLATION**

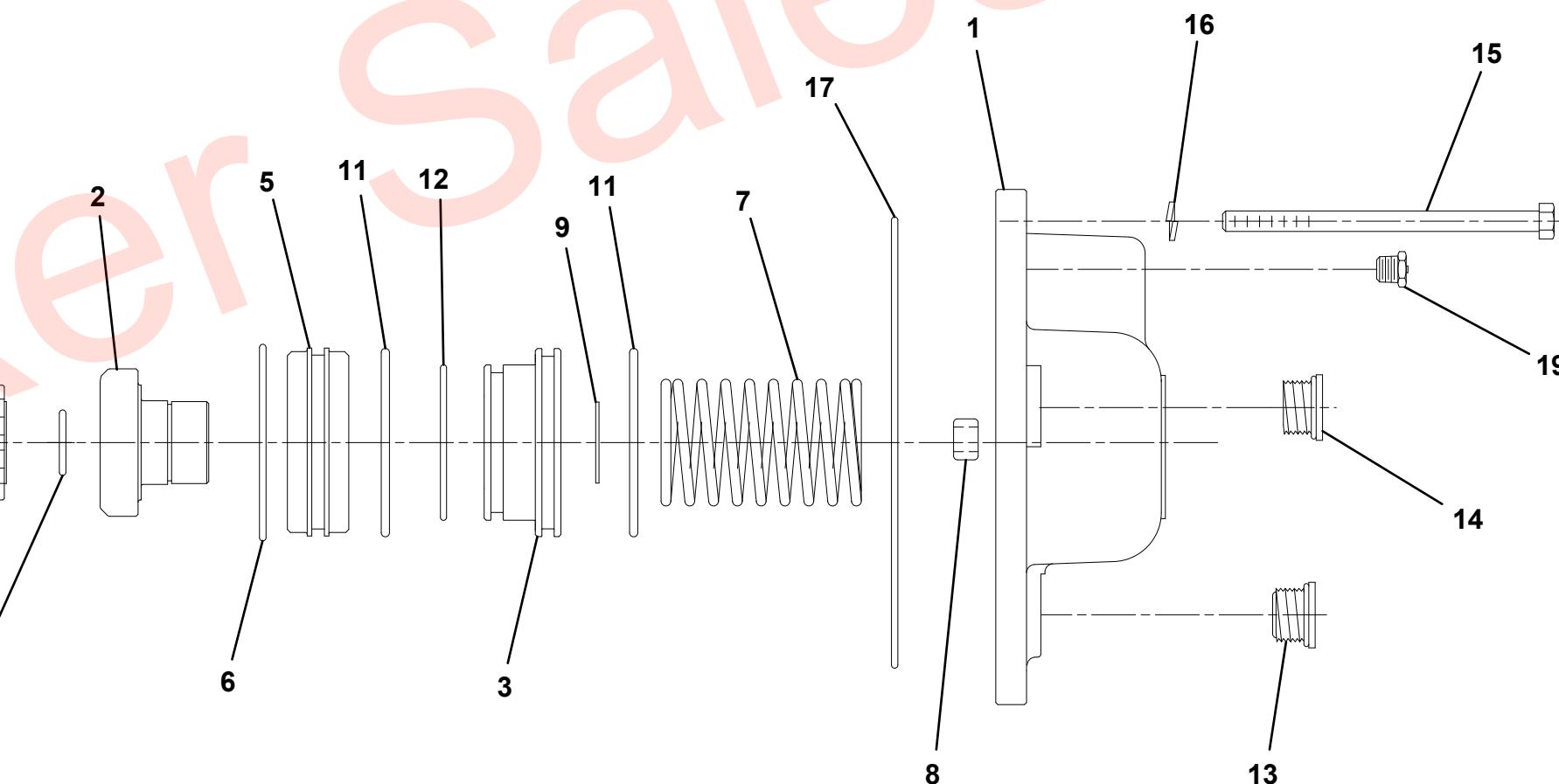
ITEM	PART NO.	DESCRIPTION	QTY
1	70050754	Base, Angle	1
2	70050755	Capscrew, 0.50"-13NC x 1.50"	12
3	70050756	Nut, 0.50"-13NC	12
4	7950180000	Lockwasher, 0.50" ID	12
5	70050384	Plate, Winch Information	1
6	70050147	Rivet	4
7	70050757	Base, Angle	1
8	70050758	Arm, Rub Bar	1
9	70050759	Capscrew, 0.38"-16NC x 8.00"	1
10	9661960034	Locknut, 0.38"-16NC	1
11	9843960023	Spring, Air Cushion	1
12	7660200200	Nut, 0.63"-11NC	2
13	9120960019	Bolt, 0.63" x 6.50" 90 Degree	1
14	7660200001	Nut, 0.63"-11NC	1
15	7950200151	Flatwasher, 0.63" ID	2
16	70050760	Spacer, Rub Bar	1

**DP WINCH 20K - BASE MOUNT INSTALLATION**

**DP WINCH 20K - GEAR END COVER INSTALLATION**

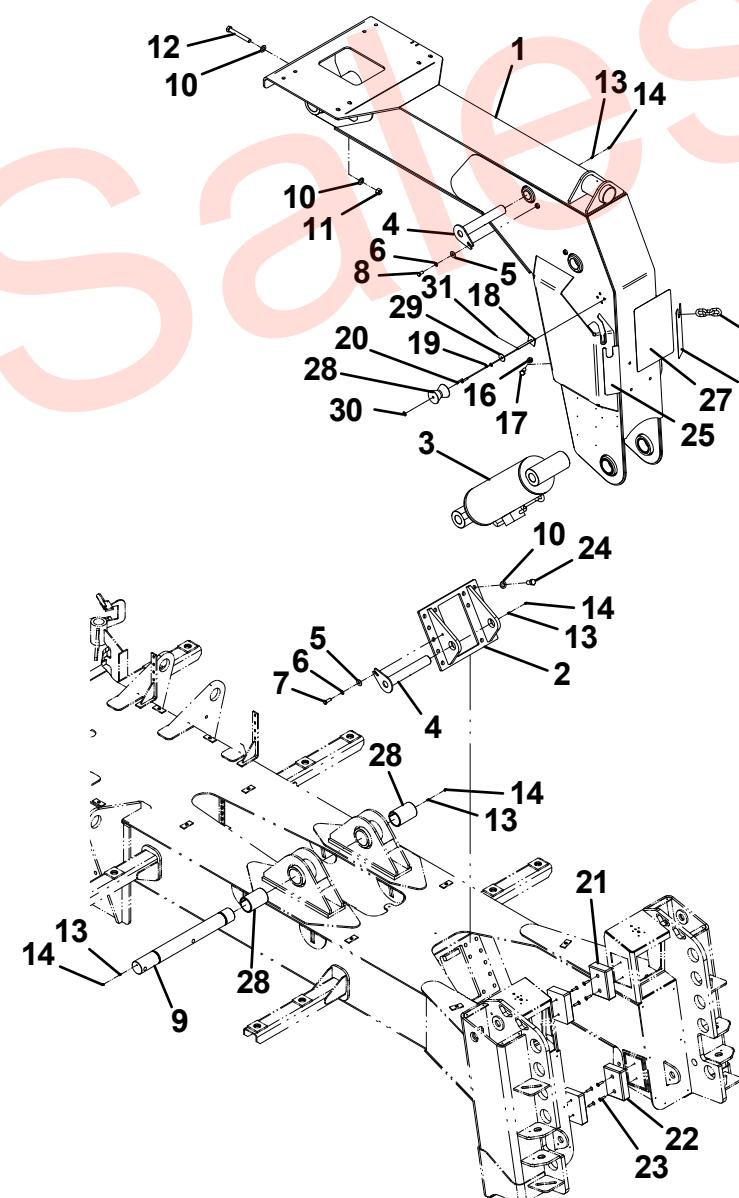
ITEM	PART NO.	DESCRIPTION	QTY
1	70050151	Cover	1
2	70050085	Coupling, Drive	1
3	70050086	Piston	1
4	70050152	Gear	1
5	9698960015	Piston, Cylinder	1
6	9754960026	Ring, Retainer	1
7	9843960032	Spring	1
8	9209960026	Bushing	1
9	9754960046	Ring, Retainer	1
10	9754960047	Ring, Retainer	1
11	9796960116	O-Ring, 2.63" ID	2
12	9796960118	O-Ring, 2.13" ID	1
13	9701960012	Plug	1
14	9701960011	Plug	1
15	70050761	Capscrew, 0.44"-18NC x 4.75"	8
16	9949960050	Lockwasher, 0.44" ID	8
17	9796960188	O-Ring, 6.50" ID	1
18	9701960018*	Caplug	1
19	9183960001	Vent	1

\* Item Not Shown

**DP WINCH 20K - GEAR END COVER INSTALLATION**

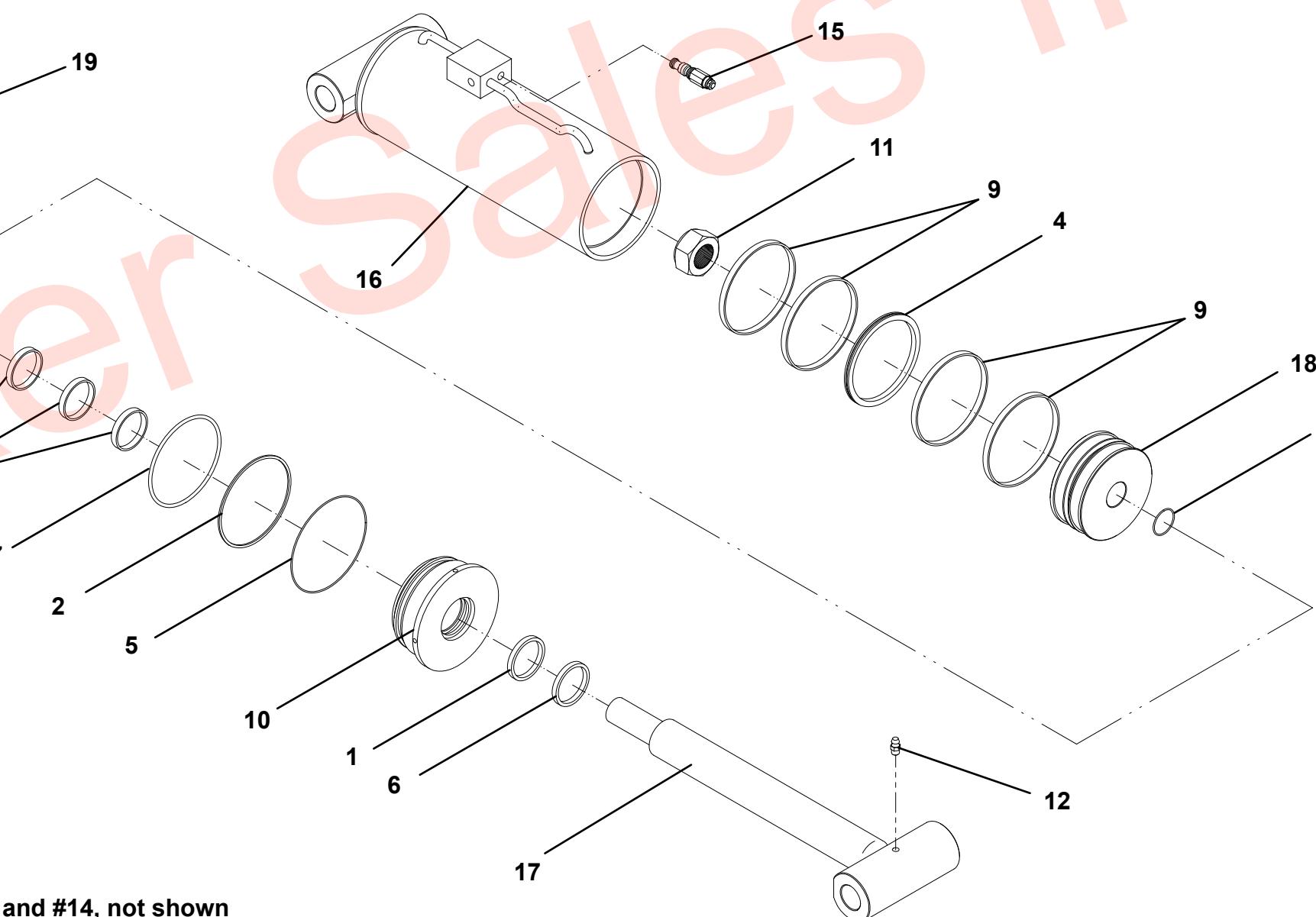
**UNDERLIFT BOOM INSTALLATION - 30,000/35,000 LB**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001128440	Underlift Knee Boom	1
2	1001128450	Bracket, Lift Cylinder Support	1
3	7320000040	Underlift Lift Cylinder Assembly	1
4	3691000171	Pin	2
5	7950180161	Flatwasher, 0.50" ID	3
6	7950180000	Lockwasher, 0.59" ID	3
7	7115181250	Capscrew, 0.50"-13NC x 1.50"	1
8	7115180850	Capscrew, 0.50"-13NC x 1.00"	2
9	1001128697	Pin	1
10	7950220141	Flatwasher, 0.75" ID	18
11	7660222601	Locknut, 0.75"-10NC	1
12	682248	Capscrew, 0.75"-10NC x 6.00"	1
13	7440030000	Grease Fitting	7
14	7253000002	Cap, Grease Fitting	7
15	7262000025	Chain	2
16	7660202601	Locknut, 0.63"-11NC	2
17	7115201250	Capscrew, 0.63"-11NC x 1.50"	2
18	1001172053	Bracket	2
19	7950160141	Flatwasher, 0.38" ID	4
20	7115161450	Capscrew, 0.38"-16NC x 1.75"	4
21	1001129534	Pad, Top	2
22	1001129535	Pad, Bottom	2
23	7115161223	Capscrew, 0.38"-16NC x 1.50"	8
24	682212	Capscrew, 0.75"-10NC x 1.50"	16
25	1001151184	Decal, Wear - LH	1
26	1001151185	Decal, Wear - RH	1
27	1001151049	Decal, Wear	1
28	1001172054	Roller, Chain	2
29	7949000015	Washer	2
30	7950180141	Flatwasher, 0.50" ID	2
31	7691000042	Pin	2

**UNDERLIFT BOOM INSTALLATION - 30,000/35,000 LB**

**UNDERLIFT LIFT CYLINDER ASSEMBLY - 7320000040**

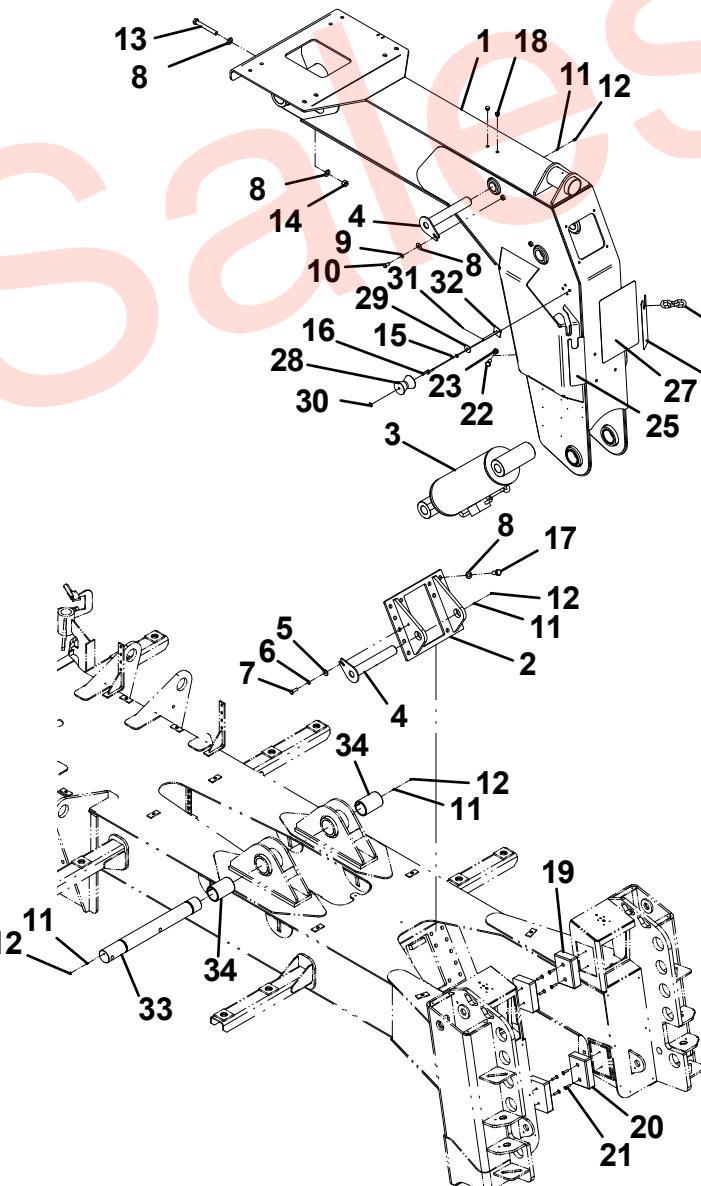
ITEM	PART NO.	DESCRIPTION	QTY
1	9796250071	Seal	1
2	9754250043	Ring, Back-up	1
3	9796250062	Seal, "O" Ring	1
4	9796250113	Seal	1
5	9796250124	Seal, "O" Ring	1
6	9796250125	Seal, Wiper	1
7	9796250117	Seal, "O" Ring	1
8	83304140	Ring, Wear	3
9	9754250045	Ring, Wear	4
10	7019892	Head	1
11	7005314	Locknut	1
12	7005348	Grease Fitting	1
13	7005365	Plug, Port	1
14	70021648	Plug, Port	2
15	70050216	Valve, Counterbalance	1
16	9912250018	Assembly, Tube	1
17	9763250022	Assembly, Rod	1
18	9698250017	Piston	1
19	7577250255	Kit, Seal	1

**UNDERLIFT LIFT CYLINDER ASSEMBLY - 7320000040**

Items #13 and #14, not shown

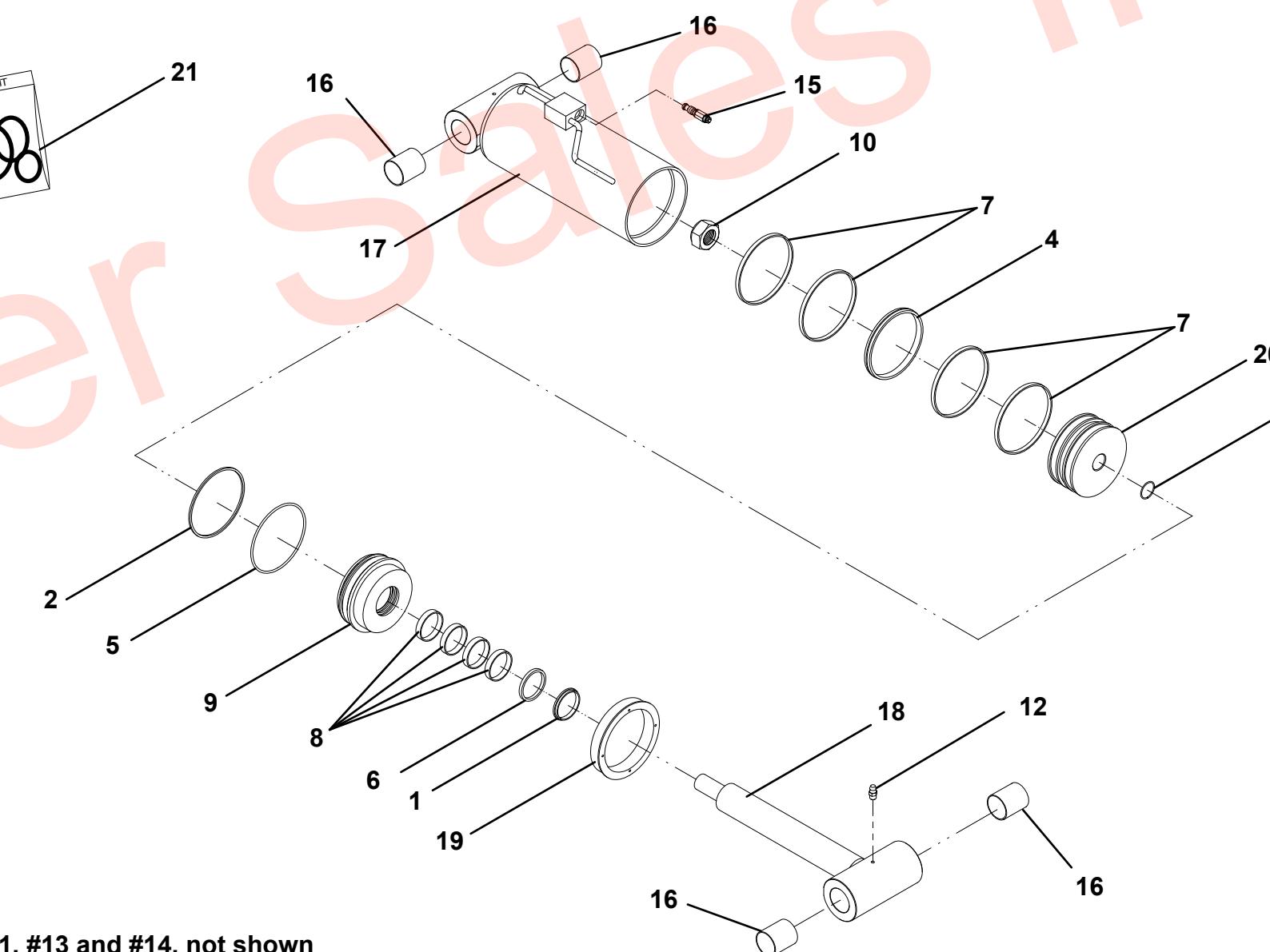
**UNDERLIFT BOOM INSTALLATION - 53,000/56,500 LB**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001133242	Underlift Knee Boom	1
2	1001133286	Bracket, Lift Cylinder Support	1
3	7320000063	Underlift Lift Cylinder Assembly	1
4	3691000231	Pin	1
5	7950180161	Flatwasher, 0.50" ID	1
6	7950180000	Lockwasher, 0.59" ID	1
7	7115181250	Capscrew, 0.50"-13NC x 1.50"	1
8	7950220141	Flatwasher, 0.75" ID	20
9	7950220000	Lockwasher, 0.75" ID	2
10	7115220850	Capscrew, 0.75"-10NC x 1.00"	2
11	7440030000	Grease Fitting	5
12	7253000002	Cap, Grease Fitting	7
13	682248	Capscrew, 0.75"-10NC x 6.00"	1
14	7660222601	Locknut, 0.75"-10NC	1
15	7950160141	Flatwasher, 0.38" ID	4
16	7115161450	Capscrew, 0.38"-16NC x 1.75"	4
17	682212	Capscrew, 0.75"-10NC x 1.50"	16
18	7189000017	Rubber Bumper	2
19	4679000127	Pad, Top	2
20	4679000245	Pad, Bottom	2
21	7115160623	Capscrew, 0.38"-16NC x 7.00"	8
22	7115201250	Capscrew, 0.63"-11NC x 1.50"	2
23	7660202601	Locknut, 0.63"-11NC	2
24	7262000025	Chain	2
25	1001151184	Decal, Wear - LH	1
26	1001151185	Decal, Wear - RH	1
27	1001151050	Decal, Wear	1
28	1001172054	Chain Roller	2
29	7949000015	Washer	2
30	7950180141	Flatwasher, 0.50" ID	2
31	7691000042	Pin	2
32	1001172053	Bracket	2
33	1001128697	Pin	1
34	1001128160	Bushing	2

**UNDERLIFT BOOM INSTALLATION - 53,000/56,500 LB**

**UNDERLIFT LIFT CYLINDER ASSEMBLY - 7320000063**

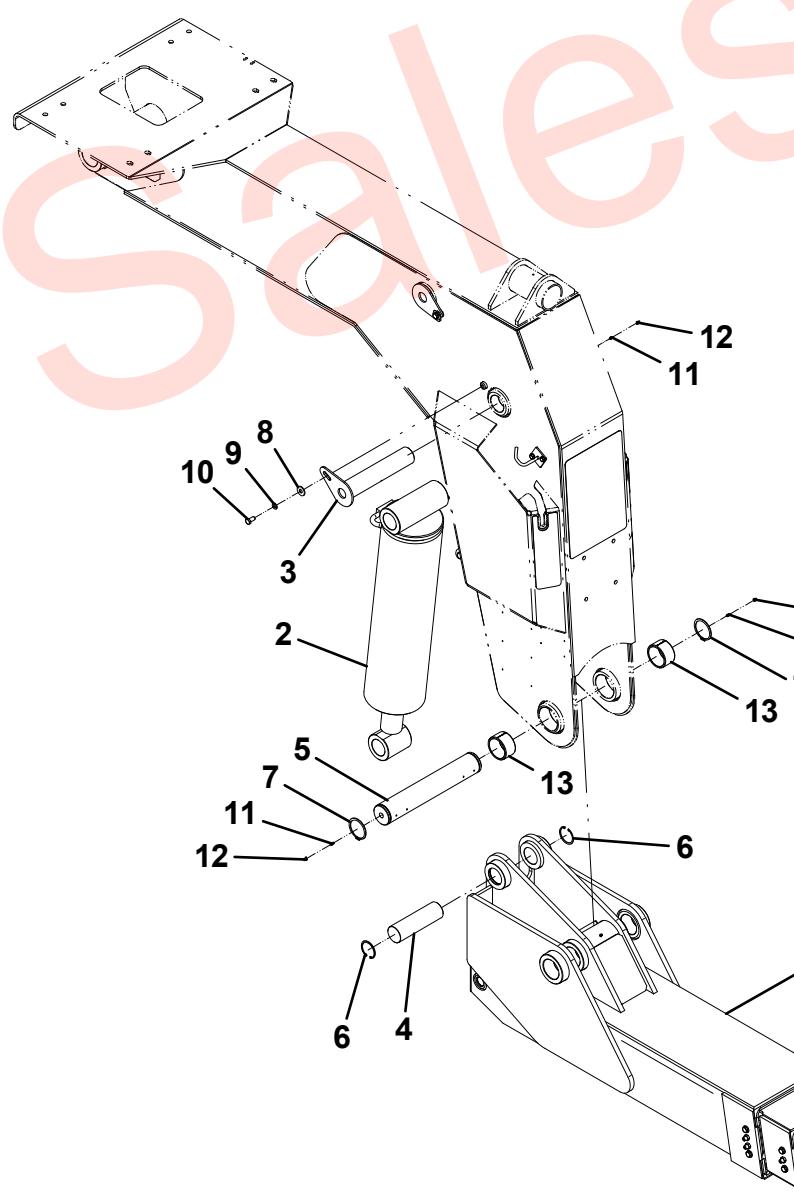
ITEM	PART NO.	DESCRIPTION	QTY
1	9796250083	Seal, Wiper	1
2	9754250011	Ring, Back-up	1
3	9796250062	Seal, "O" Ring	1
4	70050544	Seal	1
5	7796250068	Seal, "O" Ring	1
6	70050545	Seal	1
7	9754250017	Ring, Wear	4
8	80004049	Ring, Wear	4
9	70050549	Head	1
10	7005314	Locknut	1
11	70021757	Setscrew	1
12	7005348	Grease Fitting	2
13	7005365	Plug, Port	1
14	70021648	Plug, Port	2
15	70050215	Valve, Counterbalance	1
16	70050232	Bushing	4
17	70050546	Assembly, Tube	1
18	70050547	Assembly, Rod	1
19	9254250007	Headcap	1
20	70050548	Piston	1
21	7577000320	Kit, Seal	1

**UNDERLIFT LIFT CYLINDER ASSEMBLY - 7320000063**

Items #11, #13 and #14, not shown

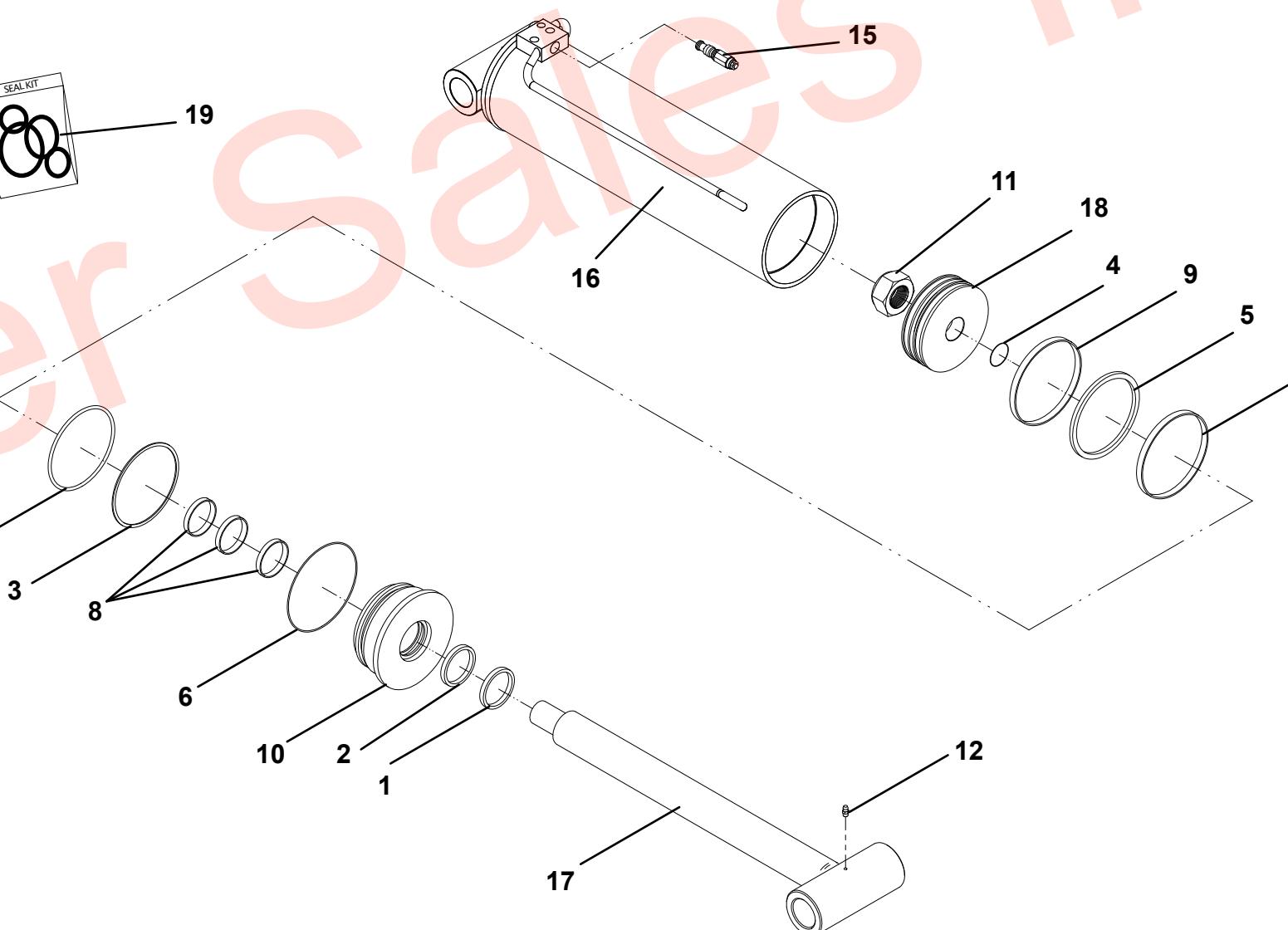
**UNDERLIFT INSTALLATION - 30,000/35,000 LB**

ITEM	PART NO.	DESCRIPTION	QTY
1	3170000433	Underlift Boom Assembly - 30,000 LB	1
	3170000220	Underlift Boom Assembly - 35,000 LB	1
2	7320000039	Underlift Tilt Cylinder Assembly	1
3	3691000160	Pin	1
4	4691000317	Pin	1
5	4691000311	Pin	1
6	7754000051	Retaining Ring	2
7	7754000018	Retaining Ring	2
8	7950180161	Flatwasher, 0.50" ID	1
9	7950180000	Lockwasher, 0.50" ID	1
10	7115180850	Capscrew, 0.50"-13NC x 1.00"	1
11	7440030000	Grease Fitting	2
12	7253000002	Cap, Grease Fitting	2
13	7209000029	Bushing	2

**UNDERLIFT INSTALLATION - 30,000/35,000 LB**

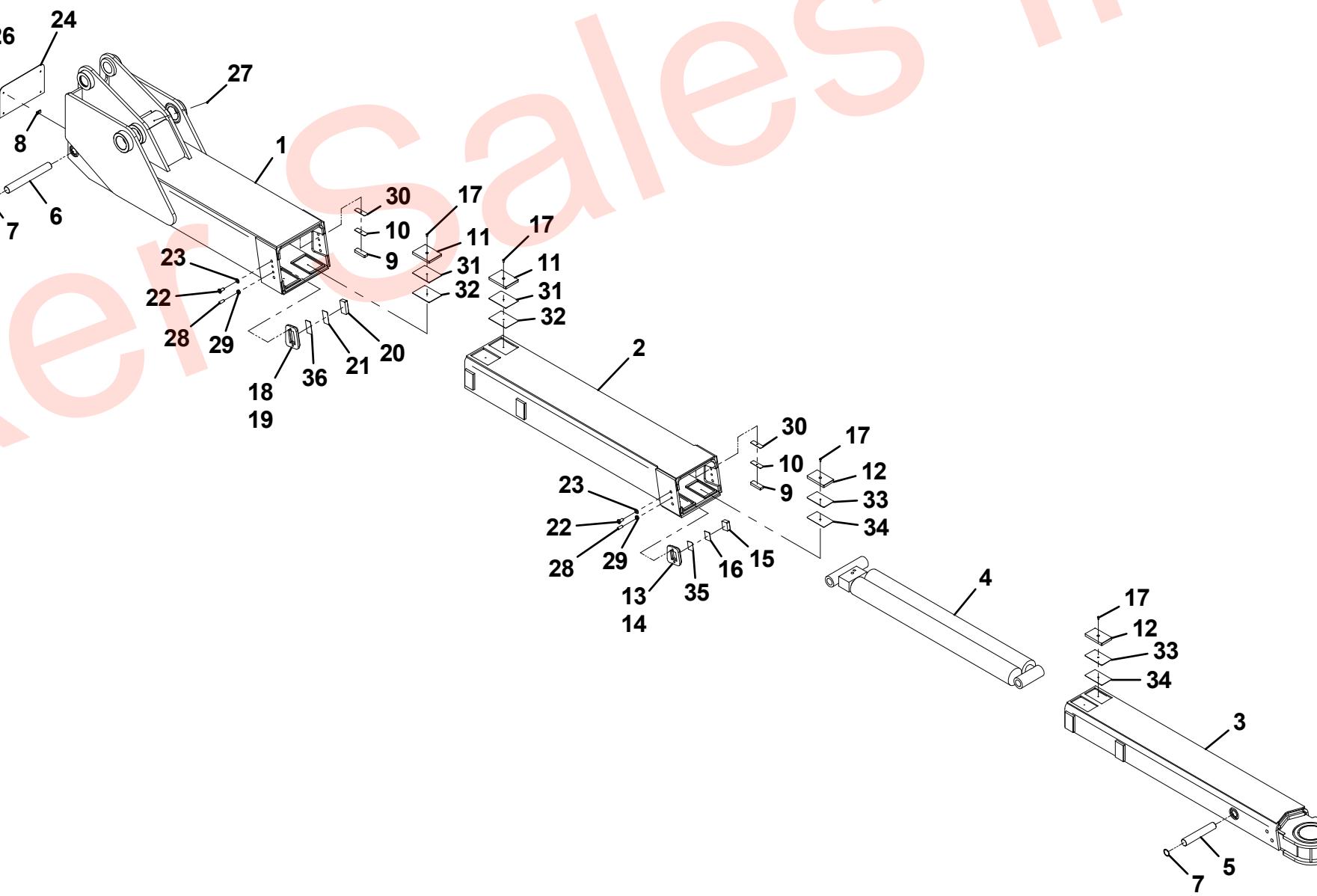
**UNDERLIFT TILT CYLINDER ASSEMBLY - 7320000039**

ITEM	PART NO.	DESCRIPTION	QTY
1	83304143	Seal, Wiper	1
2	9796250071	Seal	1
3	9754250043	Ring, Back-up	1
4	9796250062	Seal, "O" Ring	1
5	9796250113	Seal	1
6	9796250124	Seal, "O" Ring	1
7	9796250117	Seal, "O" Ring	1
8	83304140	Ring, Wear	3
9	9754250045	Ring, Wear	2
10	7019892	Head	1
11	7005314	Locknut	1
12	7005348	Grease Fitting	1
13	7005365	Plug, Port	3
14	70021648	Plug, Port	2
15	70050216	Valve, Counterbalance	1
16	70050542	Assembly, Tube	1
17	70050543	Assembly, Rod	1
18	9698250014	Piston	1
19	7577250204	Kit, Seal	1

**UNDERLIFT TILT CYLINDER ASSEMBLY - 7320000039**

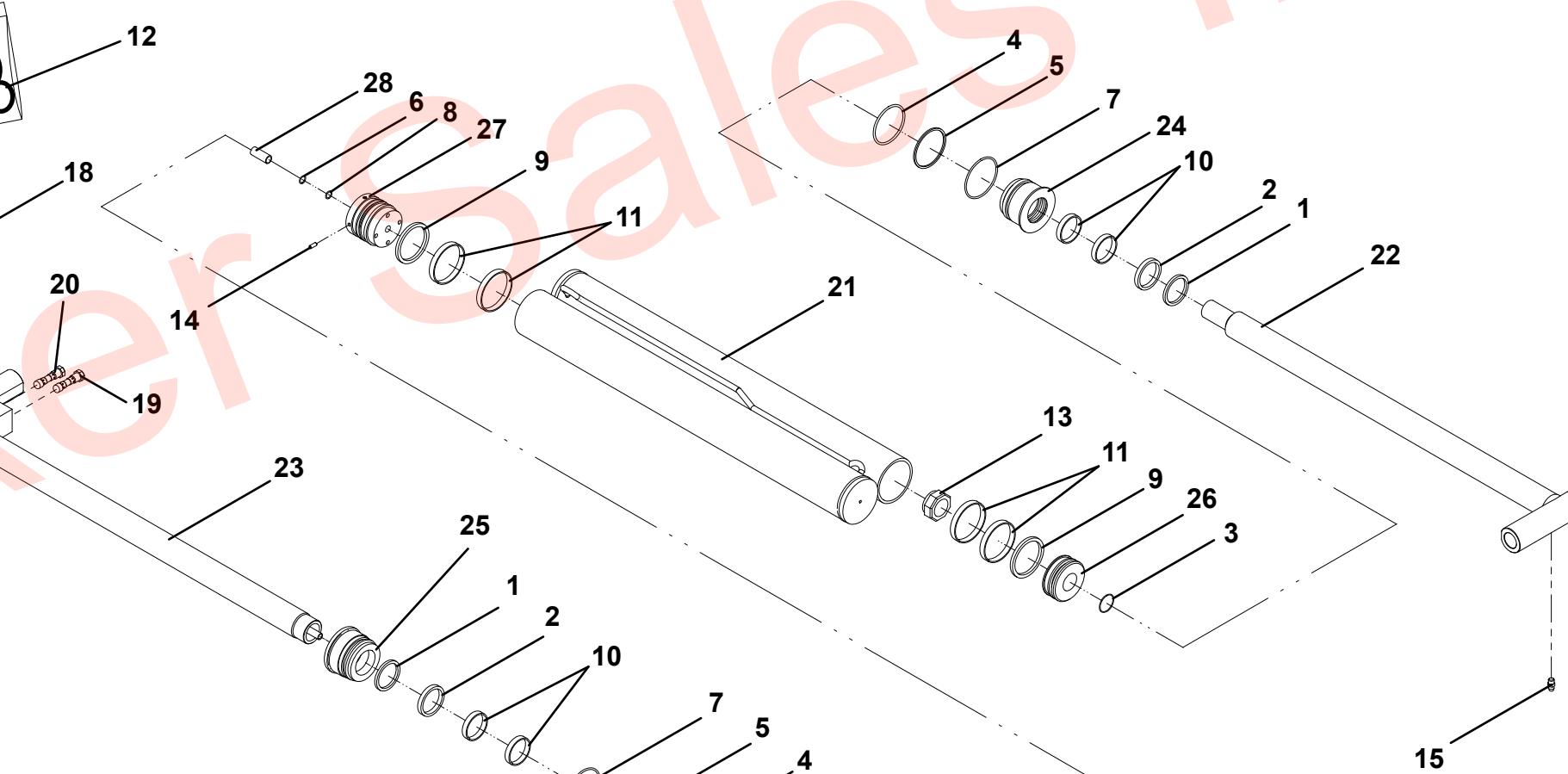
**UNDERLIFT ASSEMBLY - 3170000433 - 30,000 LB**

ITEM	PART NO.	DESCRIPTION	QTY
1	3170000432	Base Section Boom Weldment	1
2	3170000431	Mid Section Boom Weldment	1
3	3170000430	Fly Section Boom Weldment	1
4	7320000076	Underlift Extension Cylinder Assembly	1
5	4691000318	Pin	1
6	4691000316	Pin	1
7	7754000043	Retaining Ring	4
8	7661000019	U-Nut, 0.25"-20NC	4
9	4679000159	Pad	2
10	4706003708	Plate	2
11	4679000161	Pad	4
12	4679000158	Pad	4
13	3706000177	Plate	1
14	3706000178	Plate	1
15	4679000206	Pad	2
16	4706003144	Plate	2
17	7114140418	Capscrew, 0.25"-20NC x 0.50"	8
18	3706000179	Plate - LH	1
19	3706000180	Plate - RH	1
20	4679000205	Pad	2
21	4706003719	Plate	2
22	7105180850	Capscrew, 0.50"-20NF x 1.00"	8
23	7950180153	Flatwasher, 0.50" ID	8
24	4706002467	Plate	1
25	7115140650	Capscrew, 0.25"-20NC x 0.75"	4
26	7950140000	Lockwasher, 0.25" ID	4
27	7440030000	Grease Fitting	1
28	7786000008	Screw, 0.50"-20NF x 1.25"	6
29	7660180230	Nut, 0.50"-20NF	6
30	4706003709	Plate	4
31	4706003721	Plate	4
32	4706003722	Plate	4
33	4706003723	Plate	4
34	4706003724	Plate	4
35	4706003725	Plate	2
36	4706003720	Plate	2

**UNDERLIFT ASSEMBLY - 3170000433 - 30,000 LB**

**UNDERLIFT EXTENSION CYLINDER ASSEMBLY - 7320000076**

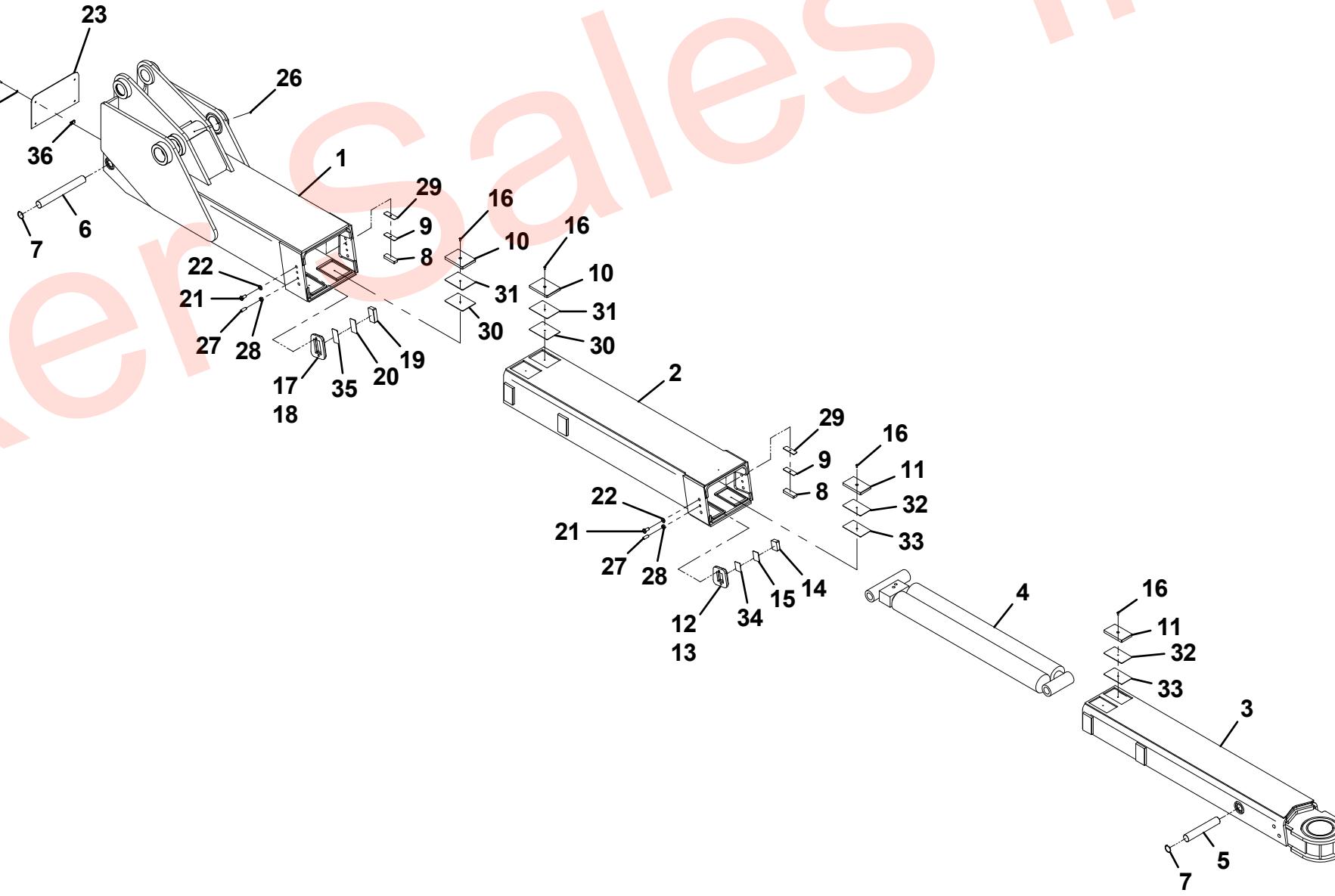
ITEM	PART NO.	DESCRIPTION	QTY
1	9796250080	Seal, Wiper	2
2	7019828	Seal	2
3	9796250133	Seal, "O" Ring	1
4	7019846	Seal, "O" Ring	2
5	7019845	Ring, Back-up	2
6	9796250135	Seal, "O" Ring	1
7	7019844	Seal, "O" Ring	2
8	9796250137	Seal, "O" Ring	2
9	9796250138	Seal	2
10	9754250015	Ring, Wear	4
11	9754250049	Ring, Wear	4
12	7577250271	Kit, Seal	1
13	7003212	Locknut	1
14	7003281	Setscrew	4
15	7005348	Grease Fitting	1
16	7005365	Plug, Port	5
17	70021648	Plug, Port	2
18	7440030400	Grease Fitting	1
19	70050218	Valve, Cartridge	1
20	70050217	Valve, Counterbalance	1
21	70050553	Assembly, Tube	1
22	70050554	Assembly, Rod	1
23	70050555	Assembly, Rod-Tube	1
24	9553250015	Head	1
25	9254250009	Head	1
26	9698250018	Piston	1
27	9698250019	Piston	1
28	9007250005	Adapter, RT Tube	1

**UNDERLIFT EXTENSION CYLINDER ASSEMBLY - 7320000076**

Items #16 and #17, not shown

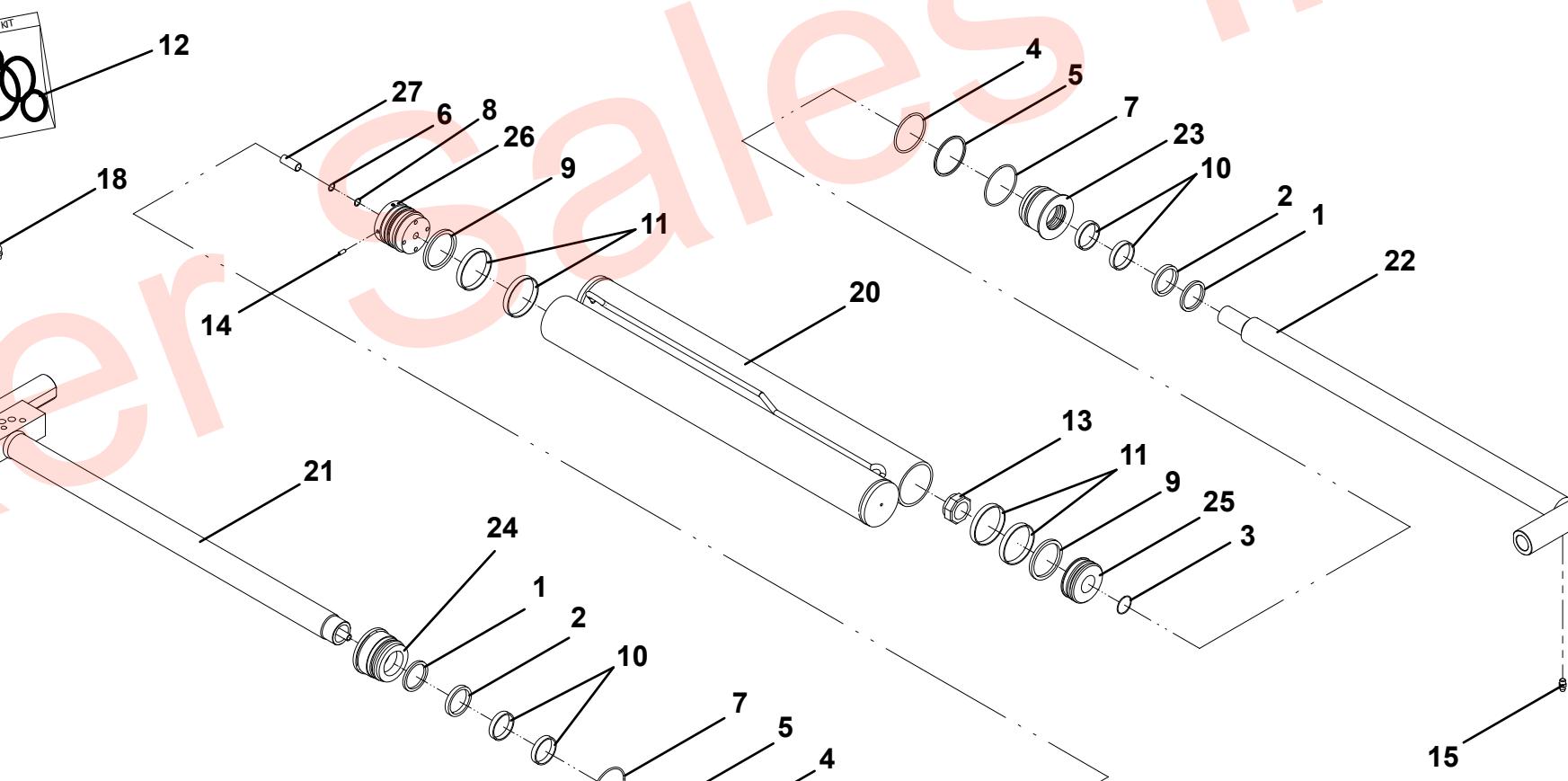
**UNDERLIFT ASSEMBLY - 3170000220 - 35,000 LB**

ITEM	PART NO.	DESCRIPTION	QTY
1	3170000224	Base Section Boom Weldment	1
2	3170000223	Mid Section Boom Weldment	1
3	3170000221	Fly Section Boom Weldment	1
4	7320000042	Underlift Extension Cylinder Assembly	1
5	4691000318	Pin	1
6	4691000316	Pin	1
7	7754000043	Retaining Ring	4
8	4679000159	Pad	2
9	4706003708	Plate	2
10	4679000161	Pad	4
11	4679000158	Pad	4
12	3706000177	Plate	1
13	3706000178	Plate	1
14	4679000206	Pad	2
15	4706003144	Plate	2
16	7114140418	Capscrew, 0.25"-20NC x 0.50"	8
17	3706000179	Plate - LH	1
18	3706000180	Plate - RH	1
19	4679000205	Pad	2
20	4706003719	Plate	2
21	7105180850	Capscrew, 0.50"-20NF x 1.00"	8
22	7950170153	Flatwasher, 0.50" ID	8
23	4706002467	Plate	1
24	7115140650	Capscrew, 0.25"-20NC x 0.75"	4
25	7950140000	Lockwasher, 0.25" ID	4
26	7440030000	Grease Fitting	1
27	7786000008	Screw, 0.50"-20NF x 1.25"	6
28	7660180230	Nut, 0.50"-20NF	6
29	4706003709	Plate	4
30	4706003721	Plate	4
31	4706003722	Plate	4
32	4706003723	Plate	4
33	4706003724	Plate	4
34	4706003725	Plate	2
35	4706003720	Plate	2
36	7661000019	U-Nut, 0.25"-20NC	4

**UNDERLIFT ASSEMBLY - 3170000220 - 35,000 LB**

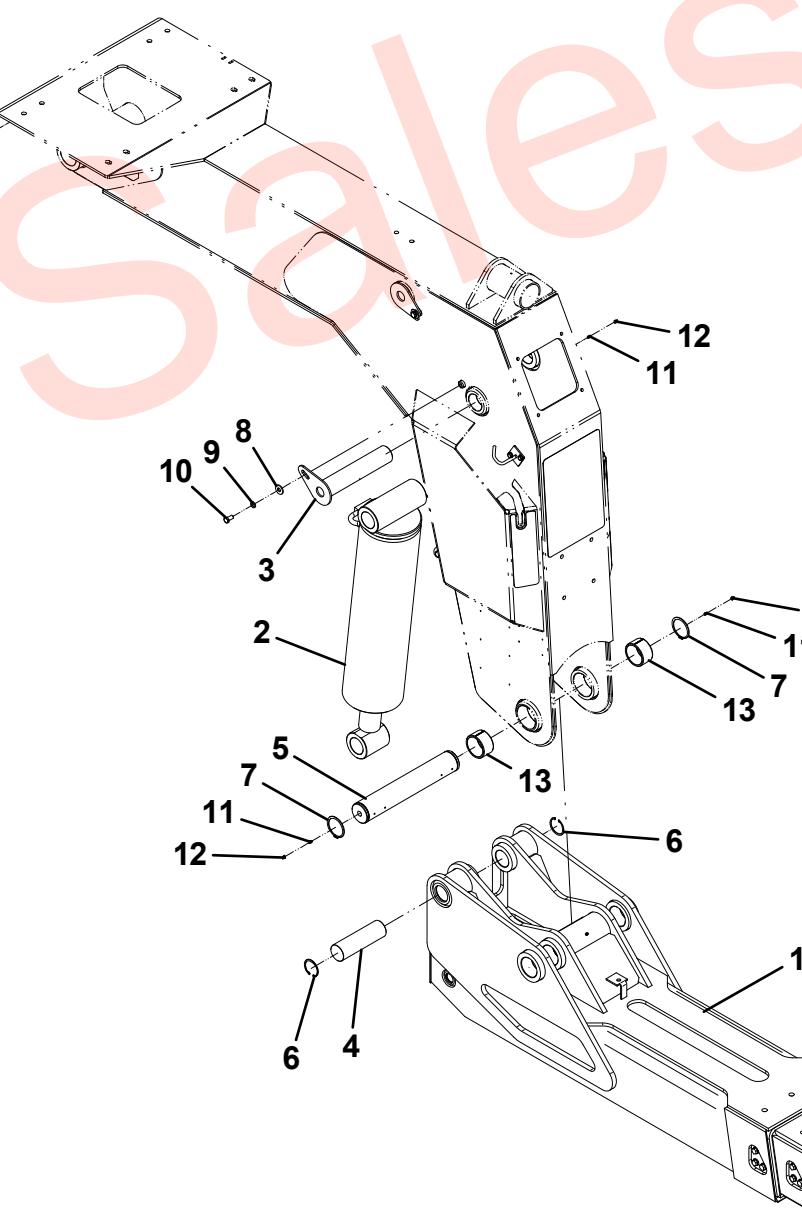
**UNDERLIFT EXTENSION CYLINDER ASSEMBLY - 7320000042**

ITEM	PART NO.	DESCRIPTION	QTY
1	9796250080	Seal, Wiper	2
2	7019828	Seal	2
3	9796250133	Seal, "O" Ring	1
4	7019846	Seal, "O" Ring	2
5	7019845	Ring, Back-up	2
6	9796250135	Seal, "O" Ring	2
7	7019844	Seal, "O" Ring	2
8	9796250137	Seal, "O" Ring	2
9	9796250138	Seal	2
10	9754250015	Ring, Wear	4
11	9754250049	Ring, Wear	4
12	7577250271	Kit, Seal	1
13	7003212	Locknut	1
14	7003281	Setscrew	4
15	7005348	Grease Fitting	1
16	70050365	Plug, Port	2
17	70021648	Plug, Port	2
18	7440030400	Grease Fitting	1
19	9935250025	Kit, Check Cartridge	1
20	9912250021	Assembly, Tube	1
21	9763250025	Assembly, Rod	1
22	9763250026	Assembly, Rod-Tube	1
23	9553250015	Head	1
24	9553250016	Head	1
25	9698250018	Piston	1
26	9698250019	Piston	1
27	9007250005	Adapter, RT Tube	1

**UNDERLIFT EXTENSION CYLINDER ASSEMBLY - 7320000042**

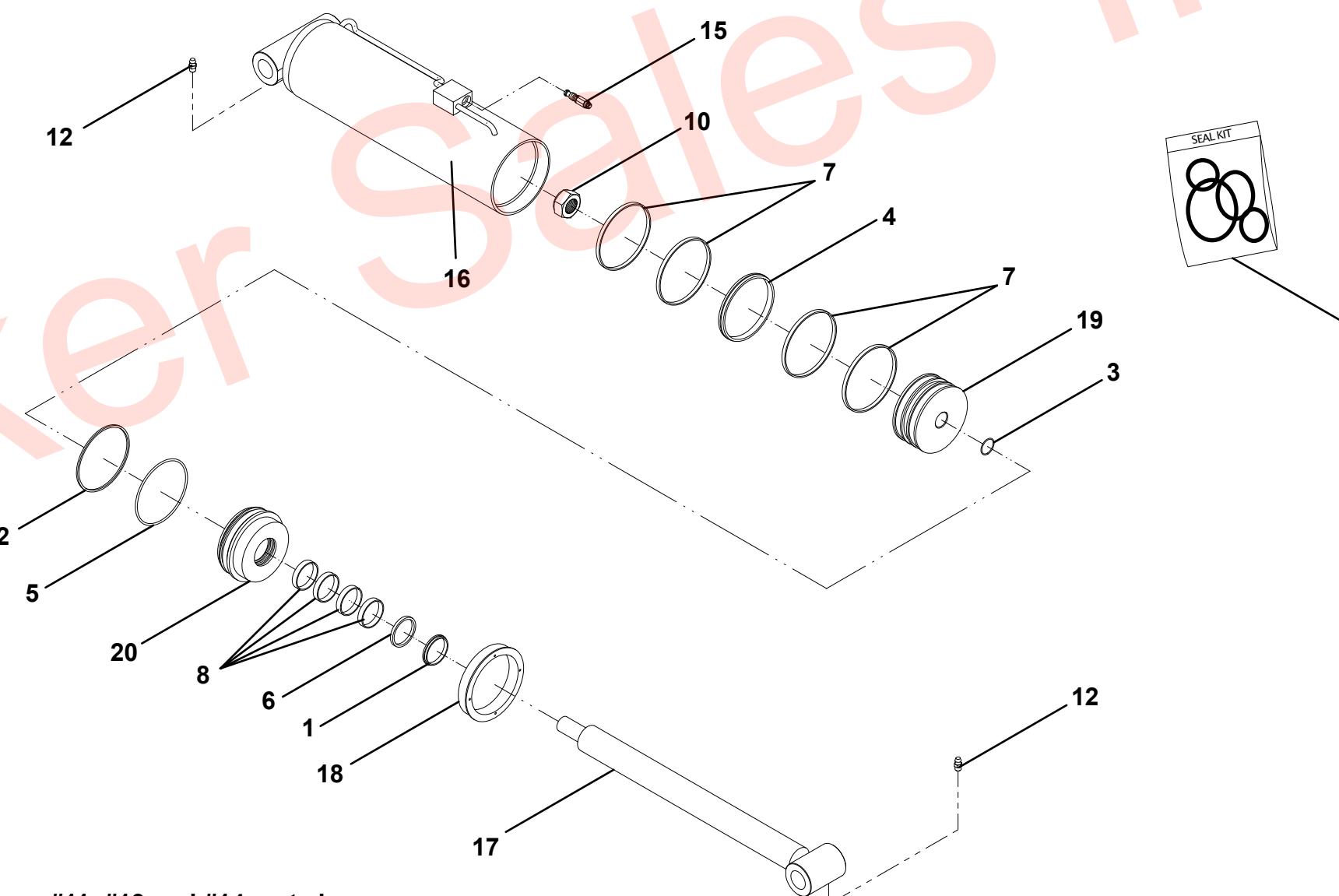
**UNDERLIFT INSTALLATION - 53,000/56,500 LB**

ITEM	PART NO.	DESCRIPTION	QTY
1	3507100001	Underlift Boom Assembly - 53,000 LB	1
	3170000407	Underlift Boom Assembly - 56,500 LB	1
2	7320000096	Underlift Tilt Cylinder Assembly	1
3	3691000232	Pin	1
4	4691000290	Pin	1
5	4691000291	Pin	1
6	7754000051	Retaining Ring	2
7	7754000018	Retaining Ring	2
8	7950220141	Flatwasher, 0.75" ID	1
9	7950000000	Lockwasher, 0.75" ID	1
10	7115220850	Capscrew, 0.75"-10NC x 1.00"	1
11	7440030000	Grease Fitting	2
12	7253000002	Cap, Grease Fitting	2
13	7209000029	Bushing	2

**UNDERLIFT INSTALLATION - 53,000/56,500 LB**

**UNDERLIFT TILT CYLINDER ASSEMBLY - 7320000096**

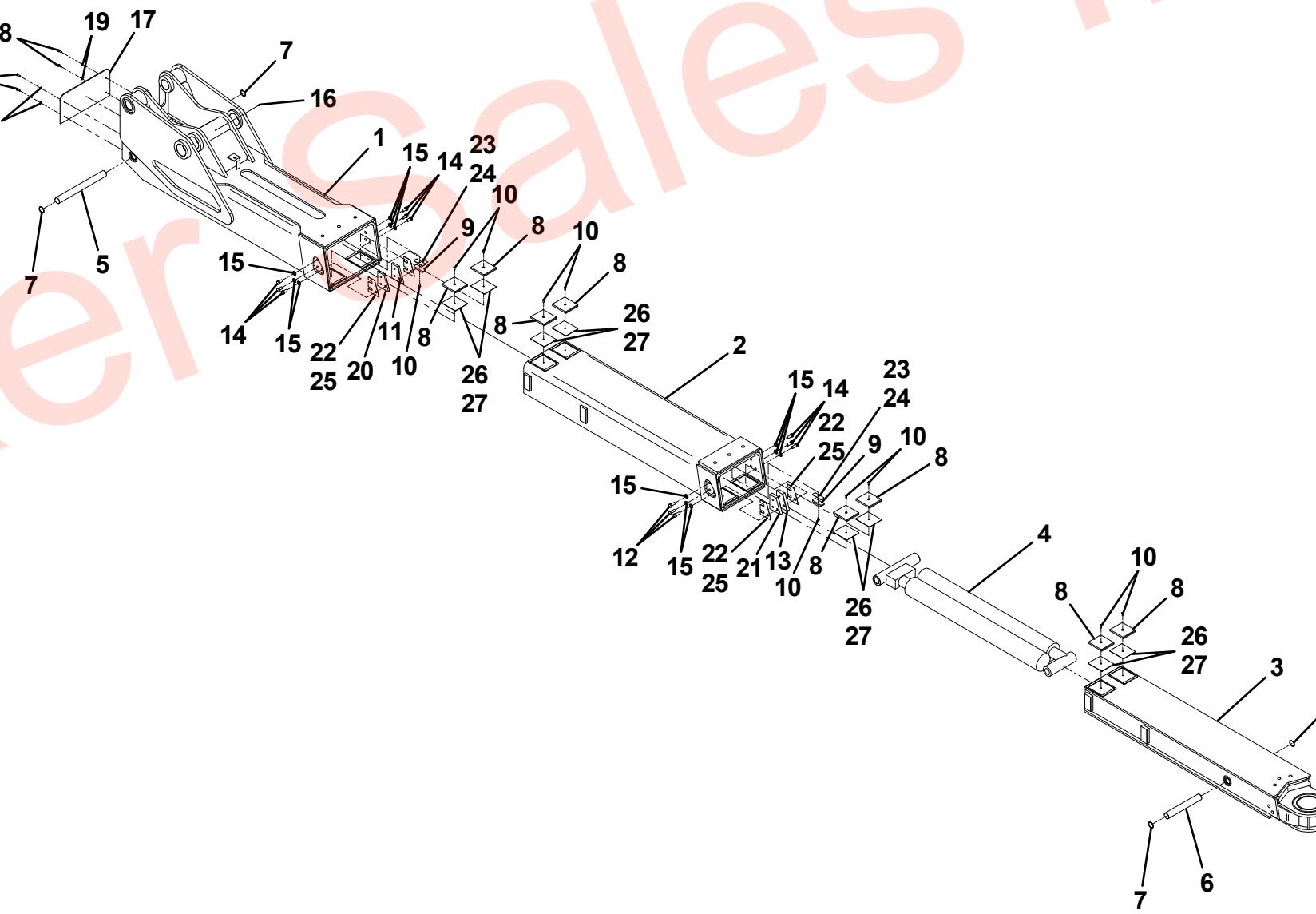
ITEM	PART NO.	DESCRIPTION	QTY
1	9796250083	Seal, Wiper	1
2	9754250011	Ring, Back-up	1
3	9796250062	Seal, "O" Ring	1
4	70050544	Seal	1
5	9796250068	Seal, "O" Ring	1
6	70050545	Seal	1
7	9754250017	Ring, Wear	4
8	80004049	Ring, Wear	4
9	7577000063	Kit, Seal	1
10	7005314	Locknut	1
11	70021757	Setscrew	1
12	7005348	Grease Fitting	2
13	70021648	Plug, Port	2
14	7005365	Plug, Port	1
15	70050215	Valve, Counterbalance	1
16	70050594	Assembly, Tube	1
17	70050595	Assembly, Rod	1
18	9254250007	Headcap	1
19	70050548	Piston	1
20	70050549	Head	1

**UNDERLIFT TILT CYLINDER ASSEMBLY - 7320000096**

Items #11, #13 and #14, not shown

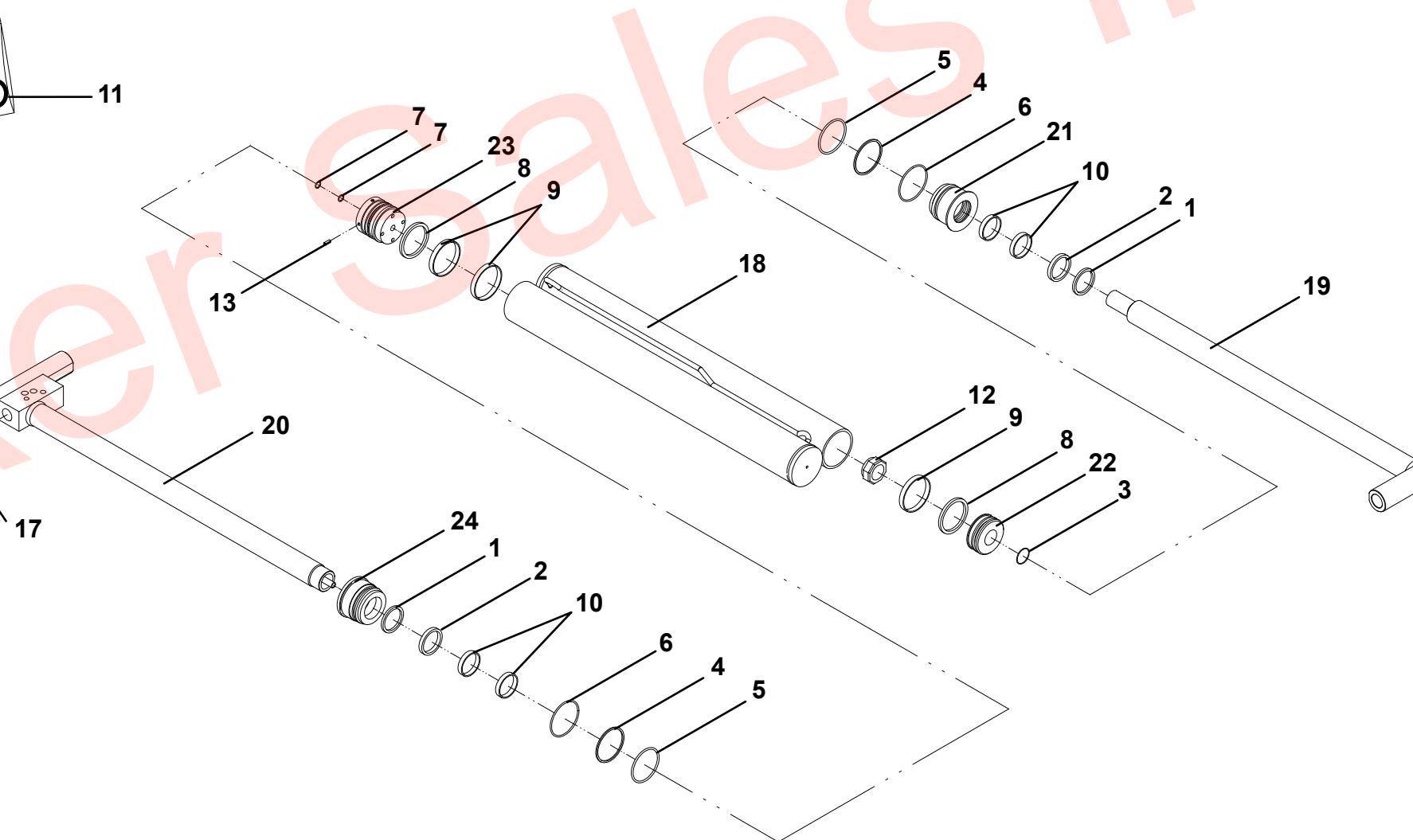
**UNDERLIFT ASSEMBLY - 3507100001 - 53,000 LB**

ITEM	PART NO.	DESCRIPTION	QTY
1	3170000125	Base Section Boom Weldment	1
2	3170000124	Mid Section Boom Weldment	1
3	3170000123	Fly Section Boom Weldment	1
4	7320000026	Underlift Extension Cylinder Assembly	1
5	4691000292	Pin	1
6	4691000293	Pin	1
7	7754000043	Retaining Ring	4
8	4679000146	Pad	8
9	4679000147	Pad	2
10	7114140518	Capscrew, 0.25"-20NC x 0.63"	10
11	4706002209	Plate	1
12	7108181050	Capscrew, 0.50"-20NF x 1.25"	6
13	4706002208	Plate	1
14	7108180850	Capscrew, 0.50"-20NF x 1.00"	6
15	7950180153	Flatwasher, 0.50" ID	12
16	7440030000	Grease Fitting	1
17	4706002207	Plate	1
18	7115140650	Plate	4
19	7950140000	Lockwasher, 0.25" ID	4
20	4706002211	Plate	1
21	4706002210	Plate	1
22	4812000057	Shim, 14GA	2
23	4706003708	Plate	2
24	4706003709	Plate	2
25	4706003710	Plate	4
26	4706003717	Plate	8
27	4706003718	Plate	8

**UNDERLIFT ASSEMBLY - 3507100001 - 53,000 LB**

**UNDERLIFT EXTENSION CYLINDER ASSEMBLY - 7320000026**

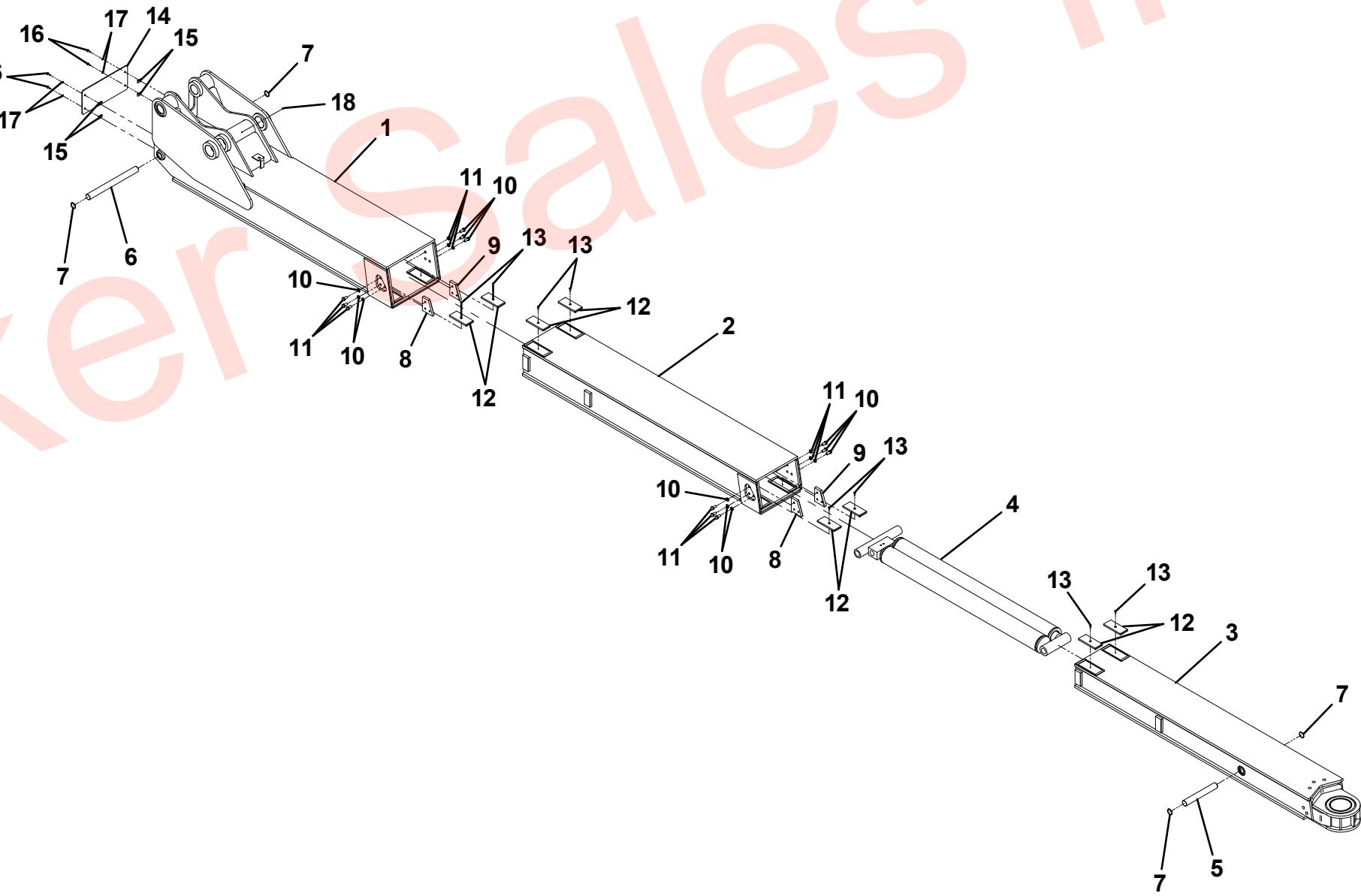
ITEM	PART NO.	DESCRIPTION	QTY
1	9796250081	Seal, Wiper	2
2	7019829	Seal	2
3	7023518	Seal, "O" Ring	1
4	9754250009	Ring, Back-up	2
5	9796250057	Seal, "O" Ring	2
6	9796250058	Seal, "O" Ring	2
7	70050534	Seal, "O" Ring	2
8	9796250073	Seal	2
9	9754250014	Ring, Wear	3
10	70050568	Ring, Wear	4
11	7577250334	Kit, Seal	1
12	7003116	Locknut	1
13	70050535	Setscrew	4
14	7005348	Grease Fitting	2
15	7005365	Plug, Port	2
16	70021648	Plug, Port	2
17	9935250025	Kit, Check Cartridge	1
18	70050536	Assembly, Tube	1
19	70050537	Assembly, Rod	1
20	70050538	Assembly, Rod-Tube	1
21	9553250010	Head	1
22	7024101	Piston	1
23	70050540	Piston	1
24	70050541	Head	1

**UNDERLIFT EXTENSION CYLINDER ASSEMBLY - 7320000026**

Items #14, #15 and #16, not shown

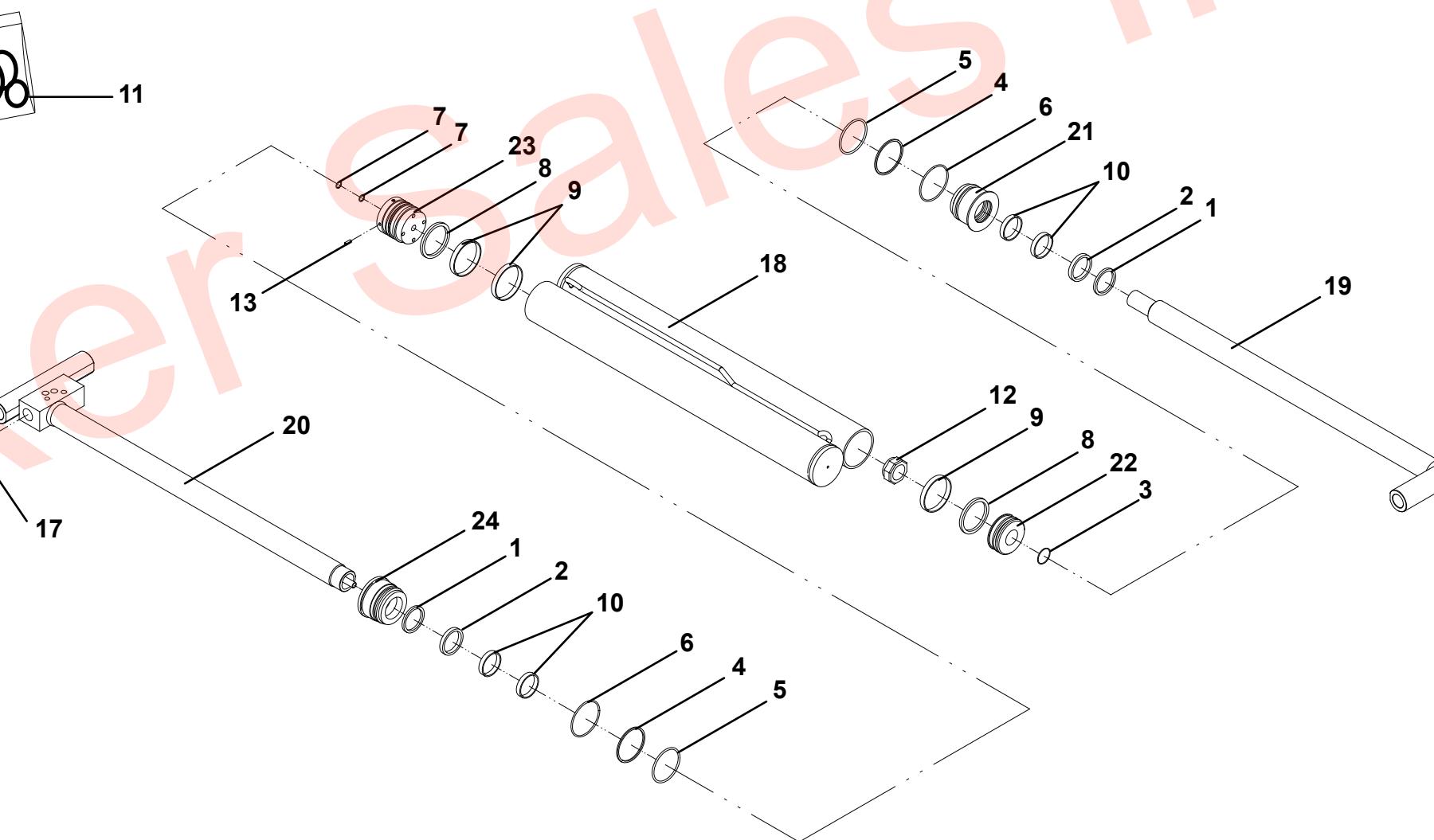
**UNDERLIFT ASSEMBLY - 3170000407 - 56,500 LB**

ITEM	PART NO.	DESCRIPTION	QTY
1	3170000400	Base Section Boom Weldment	1
2	3170000401	Mid Section Boom Weldment	1
3	3170000406	Fly Section Boom Weldment	1
4	7320000068	Underlift Extension Cylinder Assembly	1
5	4691000293	Pin	1
6	4691000321	Pin	1
7	7754000043	Retaining Ring	4
8	4706005262	Plate	2
9	4706005263	Plate	2
10	7108180850	Capscrew, 0.50"-20NF x 1.00"	12
11	7950180000	Lockwasher, 0.50" ID	12
12	4679000277	Pad, 0.38" Thk	8
13	4679000293	Pad, 0.25" Thk	8
14	7114140518	Capscrew, 0.25"-20NC x 0.63"	8
15	4706005281	Plate	1
16	7661000019	U-Nut, 0.25"-20NC	4
17	7115140650	Capscrew, 0.25"-20NC x 0.75"	4
18	7950140000	Lockwasher, 0.25" ID	4
	7440030000	Grease Fitting	1

**UNDERLIFT ASSEMBLY - 3170000407 - 56,500 LB**

**UNDERLIFT EXTENSION CYLINDER ASSEMBLY - 7320000068**

ITEM	PART NO.	DESCRIPTION	QTY
1	9796250081	Seal, Wiper	2
2	7019829	Seal	2
3	7023518	Seal, "O" Ring	1
4	9754250009	Ring, Back-up	2
5	9796250057	Seal, "O" Ring	2
6	9796250058	Seal, "O" Ring	2
7	70050534	Seal, "O" Ring	2
8	9796250073	Seal	2
9	9754250014	Ring, Wear	3
10	80004056	Ring, Wear	4
11	7577250334	Kit, Seal	1
12	7003116	Locknut	1
13	70050535	Setscrew	4
14	7005348	Grease Fitting	2
15	7005365	Plug, Port	2
16	70021648	Plug, Port	2
17	9935250025	Kit, Check Cartridge	1
18	70050550	Assembly, Tube	1
19	70050551	Assembly, Rod	1
20	70050552	Assembly, Rod-Tube	1
21	9553250010	Head	1
22	7024101	Piston	1
23	70050540	Piston	1
24	70050541	Head	1

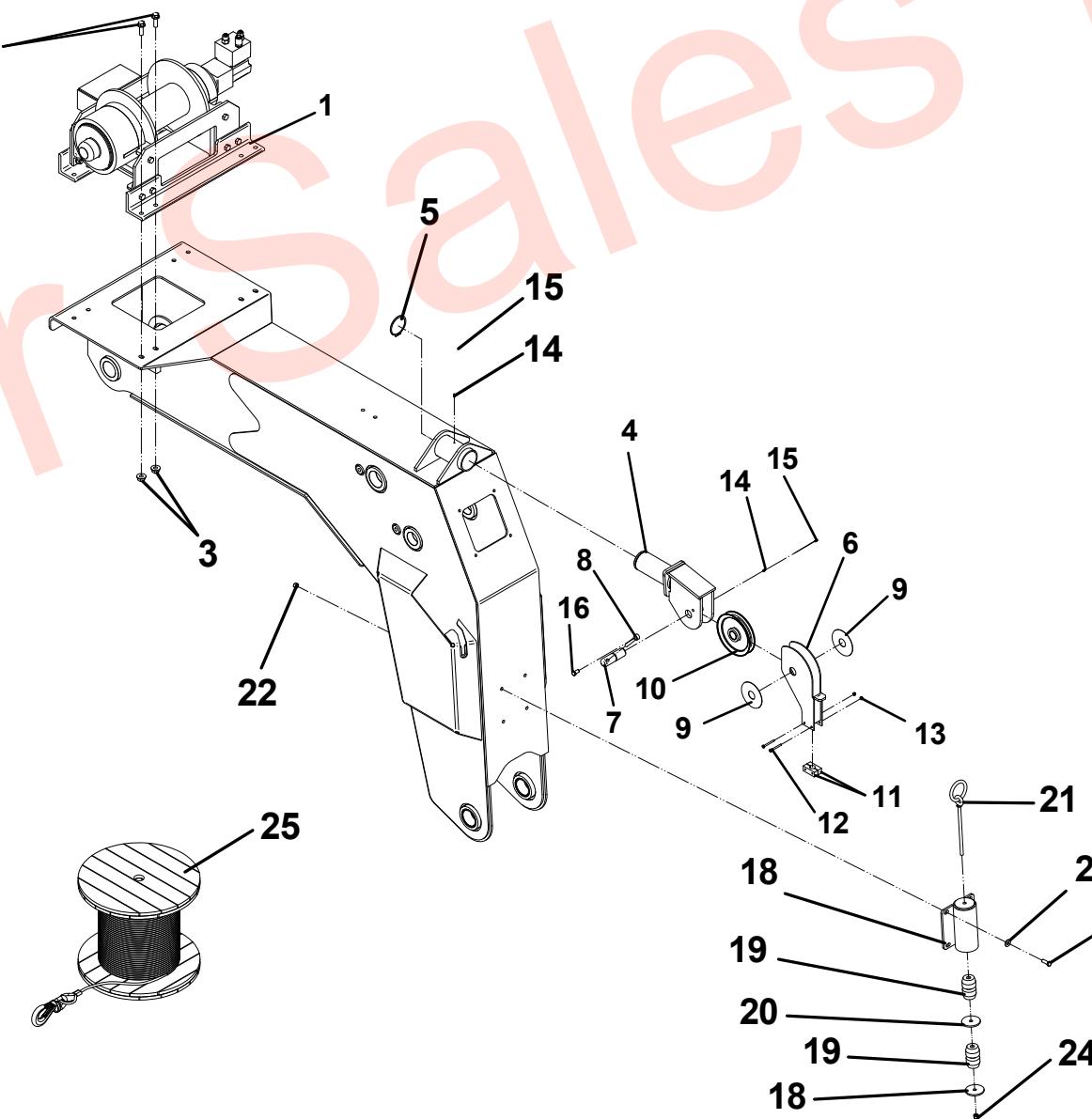
**UNDERLIFT EXTENSION CYLINDER ASSEMBLY - 7320000068**

Items #14, #15 and #16, not shown

**DRAG WINCH INSTALLATION**

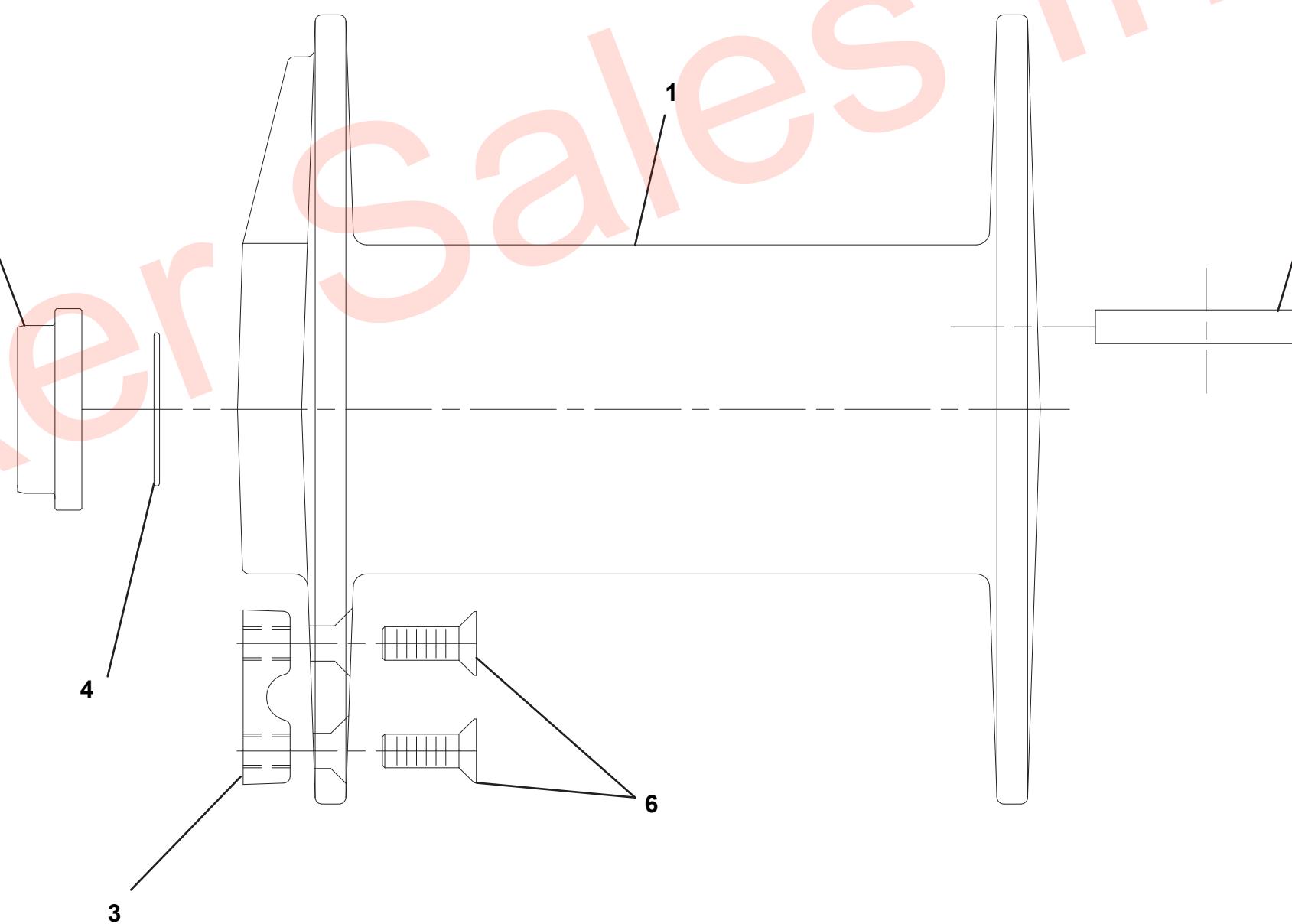
ITEM	PART NO.	DESCRIPTION	QTY
1	7970000069	Winch - DP35	1
2	7118201616	Capscrew, 0.63"-11NC x 2.00"	8
3	7661000018	Nut, 0.63"-11NC	8
4	1001169617	Sheave Support	1
5	7754000049	Retaining Ring	1
6	3249000012	Cable Guide Weldment	1
7	1001169893	Pin	1
8	3841203	Rod, Keeper	1
9	4949000045	Washer, 5.00" OD x 1.53" ID	2
10	7809000006	Sheave	1
11	4249000002	Cable Guide	2
12	7115142050	Capscrew, 0.25"-20NC x 2.50"	2
13	7660142604	Locknut, 0.25"-20NC	2
14	7440030000	Grease Fitting	2
15	7253000002	Grease Fitting Cap	2
16	7115180850	Capscrew .520"-13NC X 1.00" Hex Head	1
17	0100011	Thread Locker 0.25-0.75 Fasteners	A/R
18	3912000034*	Tie Back Tube	1
19	7189000014*	Spring	2
20	4831000115*	Spacer	2
21	7120000053*	Ring Bolt, 0.50"-13NC x 10.00"	1
22	7115181250*	Capscrew, 0.50"-13NC x 1.50"	4
23	7950180150*	Flatwasher, 0.50" ID	4
24	7660182601*	Locknut, 0.50"-13NC	5
25	7248000148	Wire Rope - Galv	250ft
	1001136470	Wire Rope	250ft

\* Item Sold as Complete Assembly - 3249000038

**DRAG WINCH INSTALLATION**

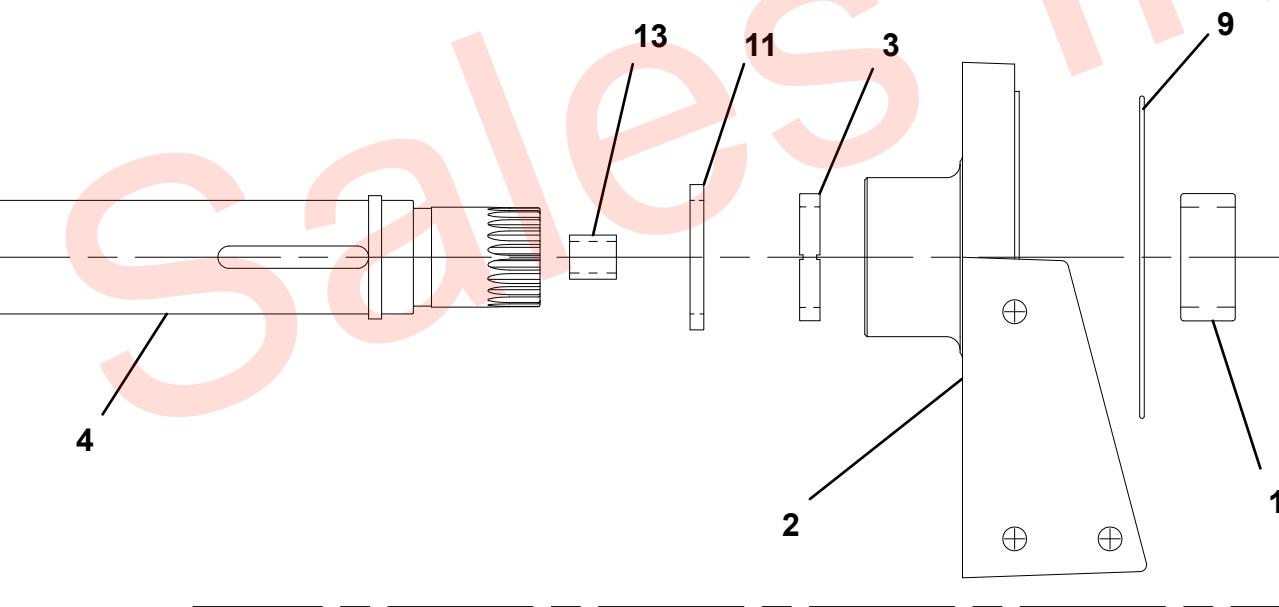
**DP WINCH 35K - CABLE WINCH DRUM INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	9970960020	Drum	1
2	9575960012	Key, Drum	2
3	9280960002	Clip	1
4	9796960089	O-Ring, 2.50" ID	1
5	9831960018	Spacer	1
6	7110201423	Capscrew, 0.63"-11NC x 1.75"	2

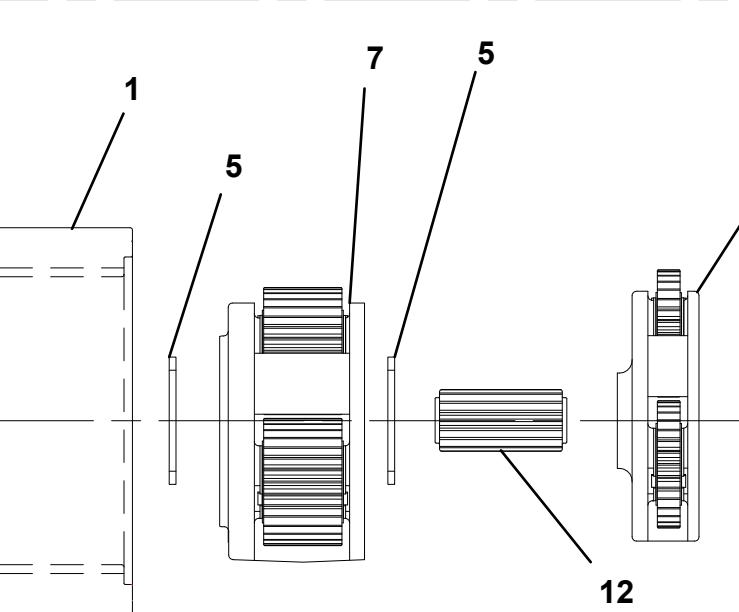
**DP WINCH 35K - CABLE DRUM INSTALLATION**

**DP WINCH 35K - GEAR END INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	9472960056	Gear	1
2	9177960003	Support, Gear End	1
3	9949960028	Thrust Washer, 3.82" OD x 0.046"	1
4	9806960021	Shaft, Output	1
5	9949960027	Thrust Washer, 3.50" OD x 0.19"	2
6	9472960052	Carrier Assembly, Primary	1
7	9472960053	Carrier Assembly, Secondary	1
8	9330960006	Label, Warning	1
9	9796960120	O-Ring, 8.75" ID	1
10	9082960018	Bearing	1
11	9796960121	Seal, 3.13" ID x 0.38"	1
12	9472960055	Gear, Sun Secondary	1
13	9209960025	Bushing	1

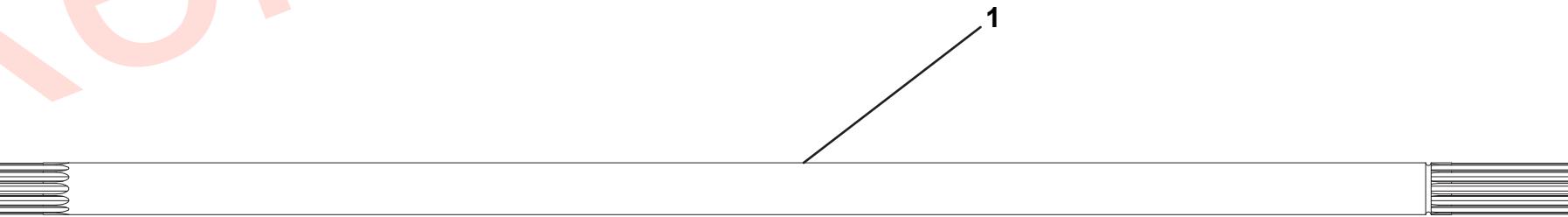
**DP WINCH 35K - GEAR END INSTALLATION**

Items #8 not shown



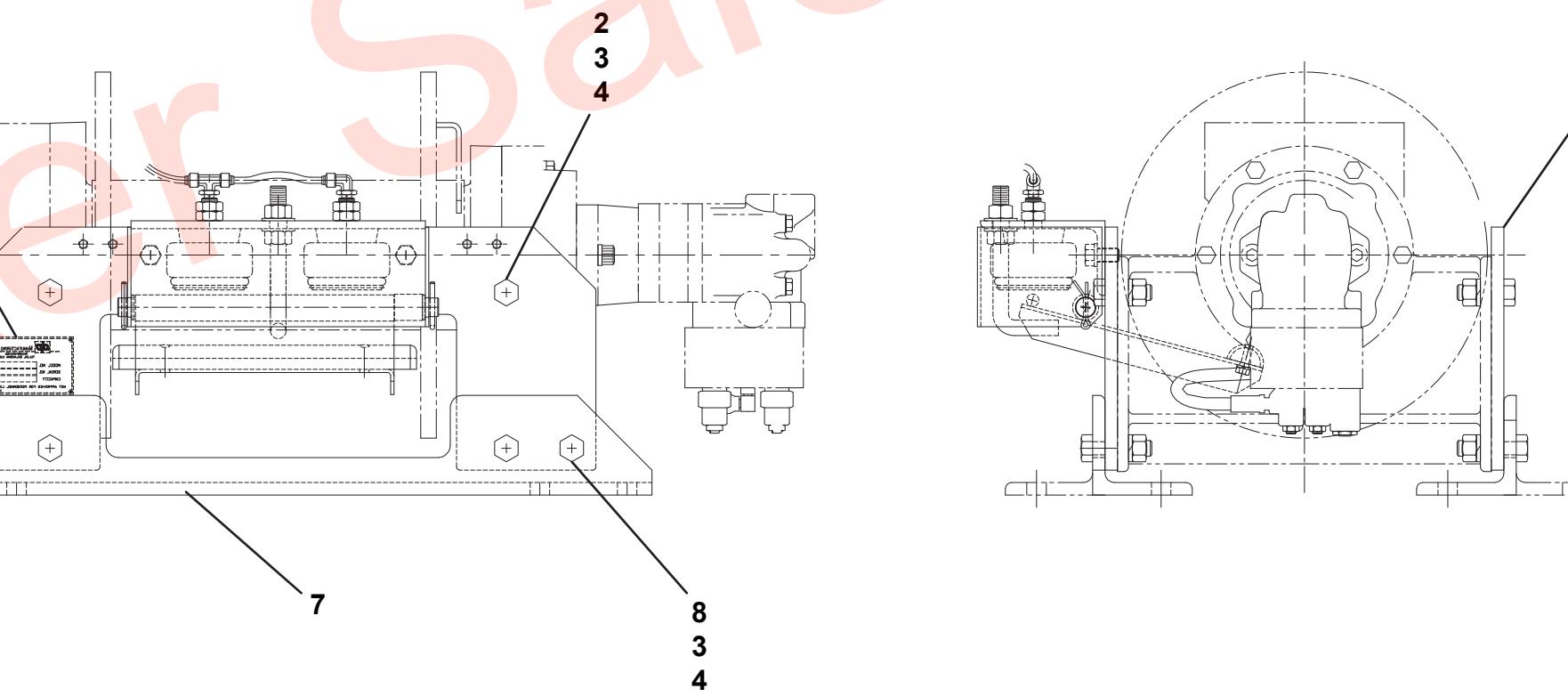
**DP WINCH 35K - INPUT SHAFT INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	9806960020	Input Shaft	1

**DP WINCH 35K - INPUT SHAFT INSTALLATION**

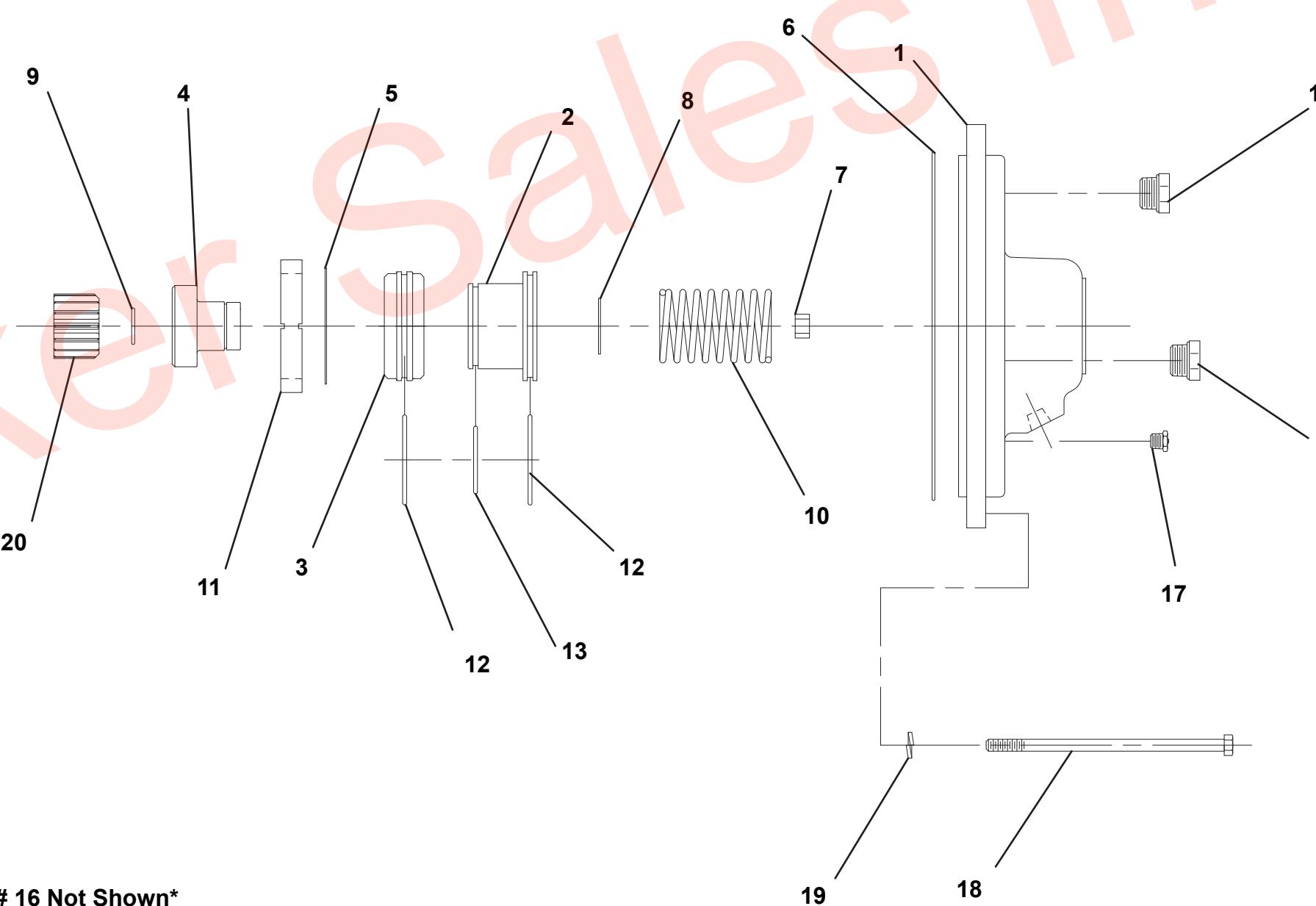
**DP WINCH 35K - BASE MOUNT INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	9073960003	Base Mount	2
2	7115201850	Capscrew, 0.63"-11NC x 2.25"	4
3	7660200001	Nut, 0.63"-11NC	12
4	7950200000	Lockwasher, 0.63" ID	12
5	70050147	Rivet	4
6	70050384	Plate, Winch ID	1
7	9073960004	Base Mount	2
8	7115202250	Capscrew, 0.63"-11NC x 2.75"	8

**DP WINCH 35K - BASE MOUNT INSTALLATION**

**DP WINCH 35K - GEAR END COVER INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	9314960022	Cover, Gear End	1
2	9698960016	Piston	1
3	9698960015	Cylinder, Piston	1
4	9309960011	Coupling	1
5	9754960026	Retainer Ring	1
6	9796960120	O-Ring, 8.75" ID	1
7	9209960026	Bushing	1
8	9754960046	Retainer Ring	1
9	9754960047	Retainer Ring	1
10	9843960032	Spring	1
11	9949960028	Thrust Washer	1
12	9796960119	O-Ring, 2.63" ID	2
13	9796960118	O-Ring, 2.13" ID	1
14	9701960011	Plug	1
15	9701960012	Plug	1
16	9701960018	Plug	1
17	9183960001	Vent	1
18	7118165250	Capscrew, 0.38"-16NC x 6.50"	12
19	7950160000	Lockwasher, 0.38" ID	12
20	9472960054	Gear, 15 Teeth	1

**DP WINCH 35K - GEAR END COVER INSTALLATION**

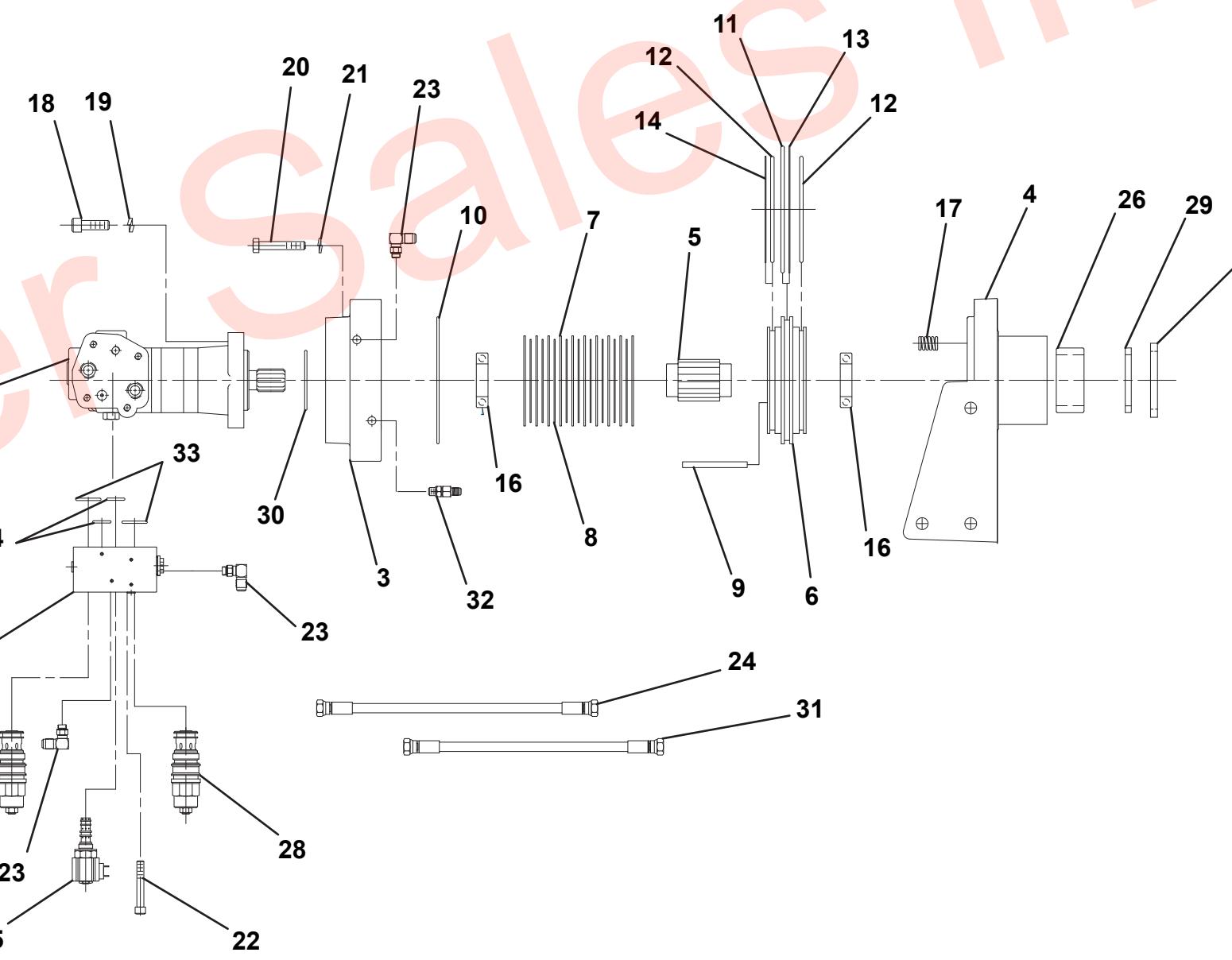
**DP WINCH - MOTOR END INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	70050399	Motor, Hydraulic	1
2	70050368	Valve, Counterbalance	1
3	9571960006	Brake Housing	1
4	9177960004	Support, Motor End	1
5	6906960019	Shaft Brake	1
6	9698960008	Piston, Brake	1
7	#	Plate, Friction Disc	10
8	#	Plate, Drive Brake	9
9	9691960021	Pin	2
10	##	O-Ring, 6.75" ID	1
11	##	O-Ring, 6.50" ID	1
12	##	O-Ring, 5.38" ID	2
13	##	Ring, Back-Up 6.50" ID	1
14	##	Ring, Back-Up 5.278" ID	1
15	70050371	Cartridge	1
16	9082960013	Bearing, 1.75" ID	2
17	#	Compression Spring	12
18	7118181205	Capscrew, 0.50"-13NC x 1.50"	2
19	7950180800	Lockwasher, 0.50" ID	2
20	7118172050	Capscrew, 0.44"-14NC x 2.50"	6
21	7950170000	Lockwasher, 0.44" ID	6
22	70050370	Capscrew, 0.38"-24NF x 2.50"	4
23	7445040445	Adapter	3
24	70050400	Hose	1
25	70050401*	Tag, Warning	1
26	9082960018	Bearing	1
27	<	Seal, 3.13" ID	1
28	9935960026	Cartridge	2
29	9949960028	Thrust Washer	1
30	<	O-Ring, 3.00" ID	1
31	70050372	Hose	1
32	9443960006	Adapter	1
33	70050369<	O-Ring, 1.13" ID	2
34	9796960088<	O-Ring, 0.82" ID	2

&lt; Part Sold With Winch Service Kit - 70050402

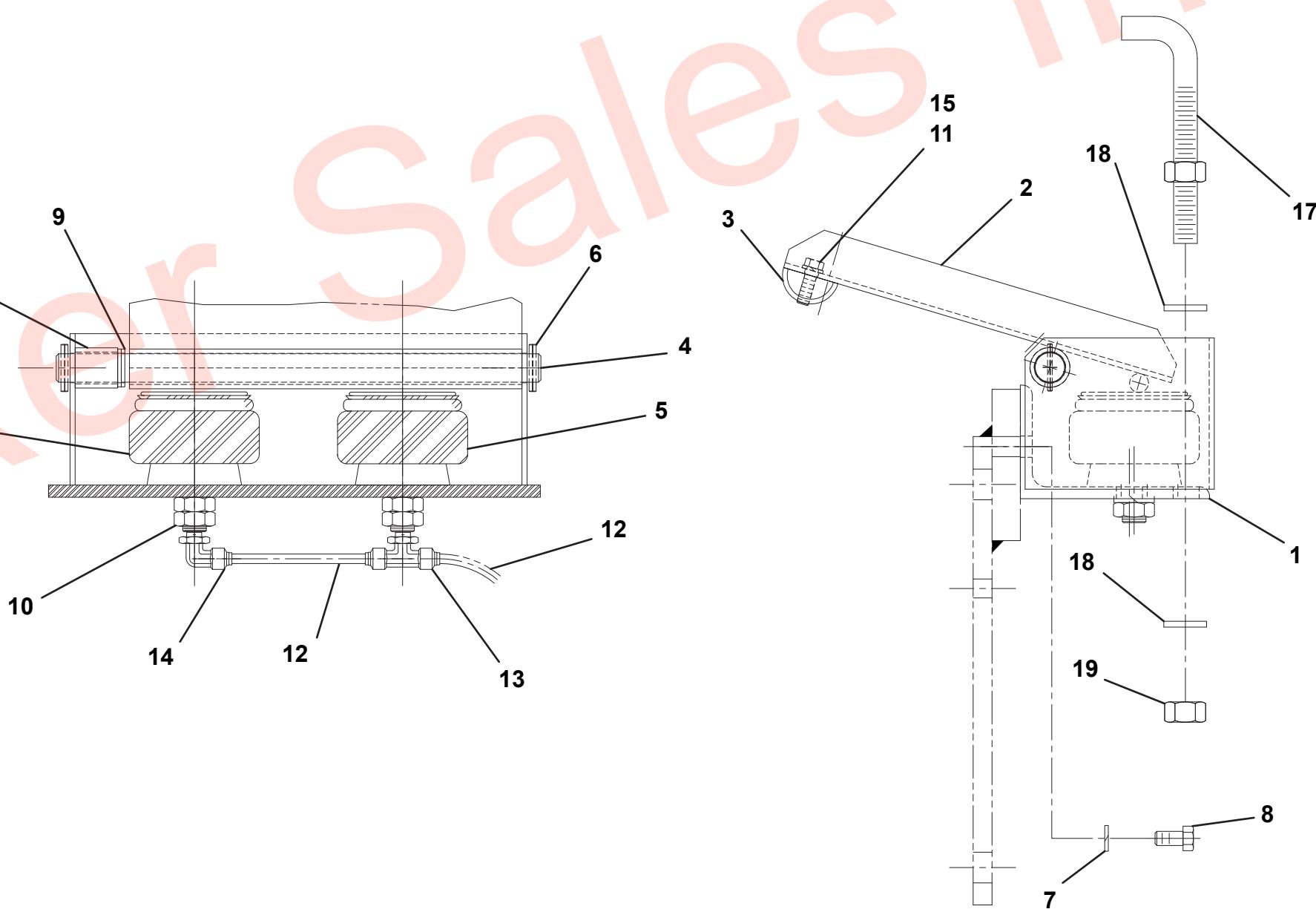
# Part Sold With Disk &amp; Spring Kit - 9577960139

## Part Sold With Brake Seal Kit - 9577960120

**DP WINCH - MOTOR END INSTALLATION**

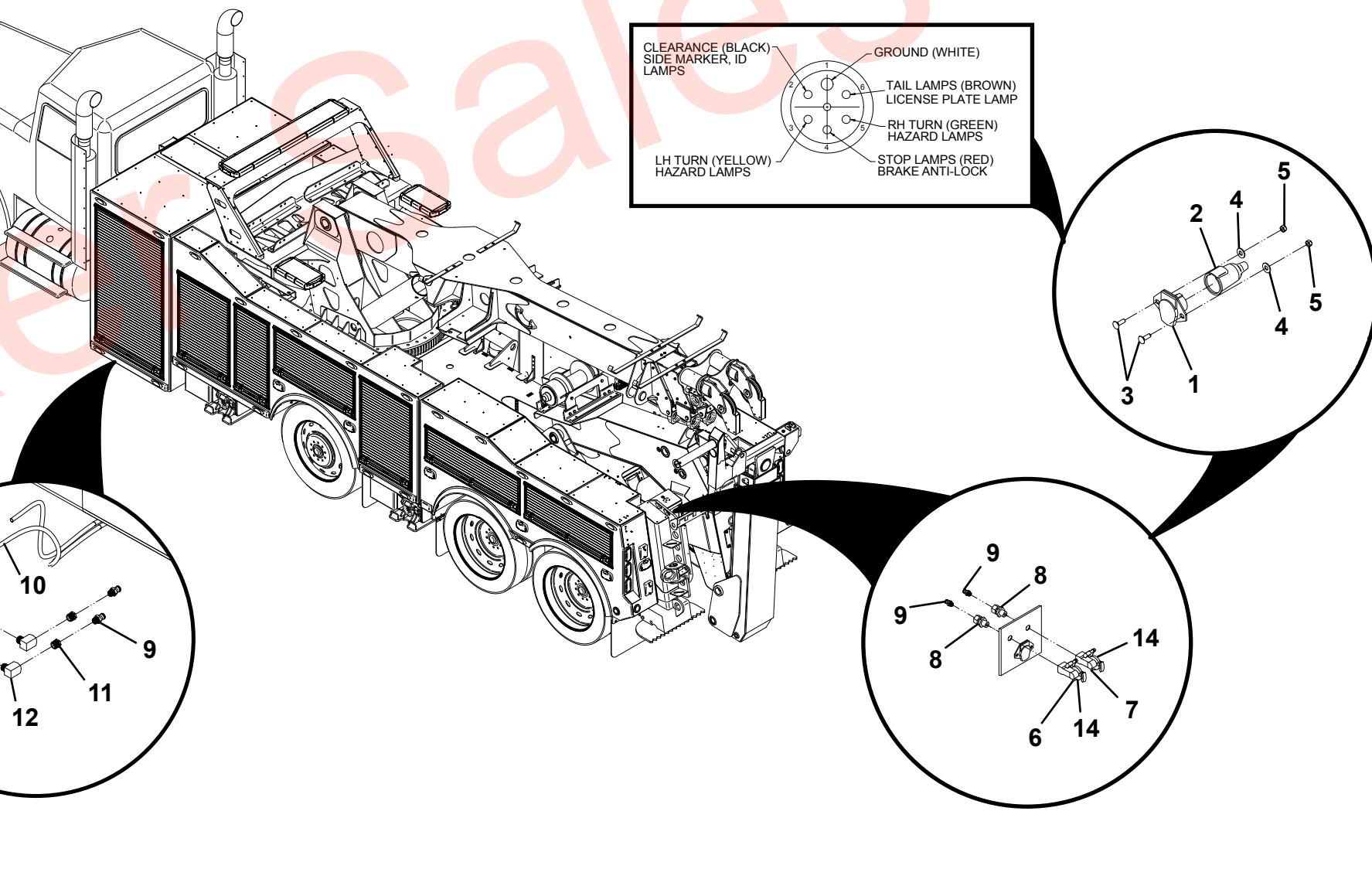
**DP WINCH - CABLE HOLD DOWN KIT**

ITEM	PART NO.	DESCRIPTION	QTY
1	9178960011	Mounting Bracket	1
2	9020960002	Pivot Arm	1
3	9064960007	Rub Bar	1
4	9691960019	Pin	1
5	9843960023	Air Spring	2
6	9690960039	Cotter Pin	2
7	7950180000	Lockwasher, 0.50" ID	2
8	7115181650	Capscrew, 0.50"-13NC x 1.00"	2
9	9949960012	Thrust Washer	2
10	7660200200	Nut, 0.63"-11NC	4
11	9120960063	Capscrew, 0.32"-18NC x 1.00"	2
12	9912960010	Tubing	3
13	7443000205	Adapter	3
14	7443000204	Adapter	1
15	9949960050	Lockwasher, 0.32" ID	2
16	9831960009	Spacer	1
17	9120960019	Anchor Bolt	1
18	7950200151	Flatwasher, 0.63" ID	2
19	7660200001	Nut, 0.63"-11NC	1

**DP WINCH - CABLE HOLD DOWN KIT**

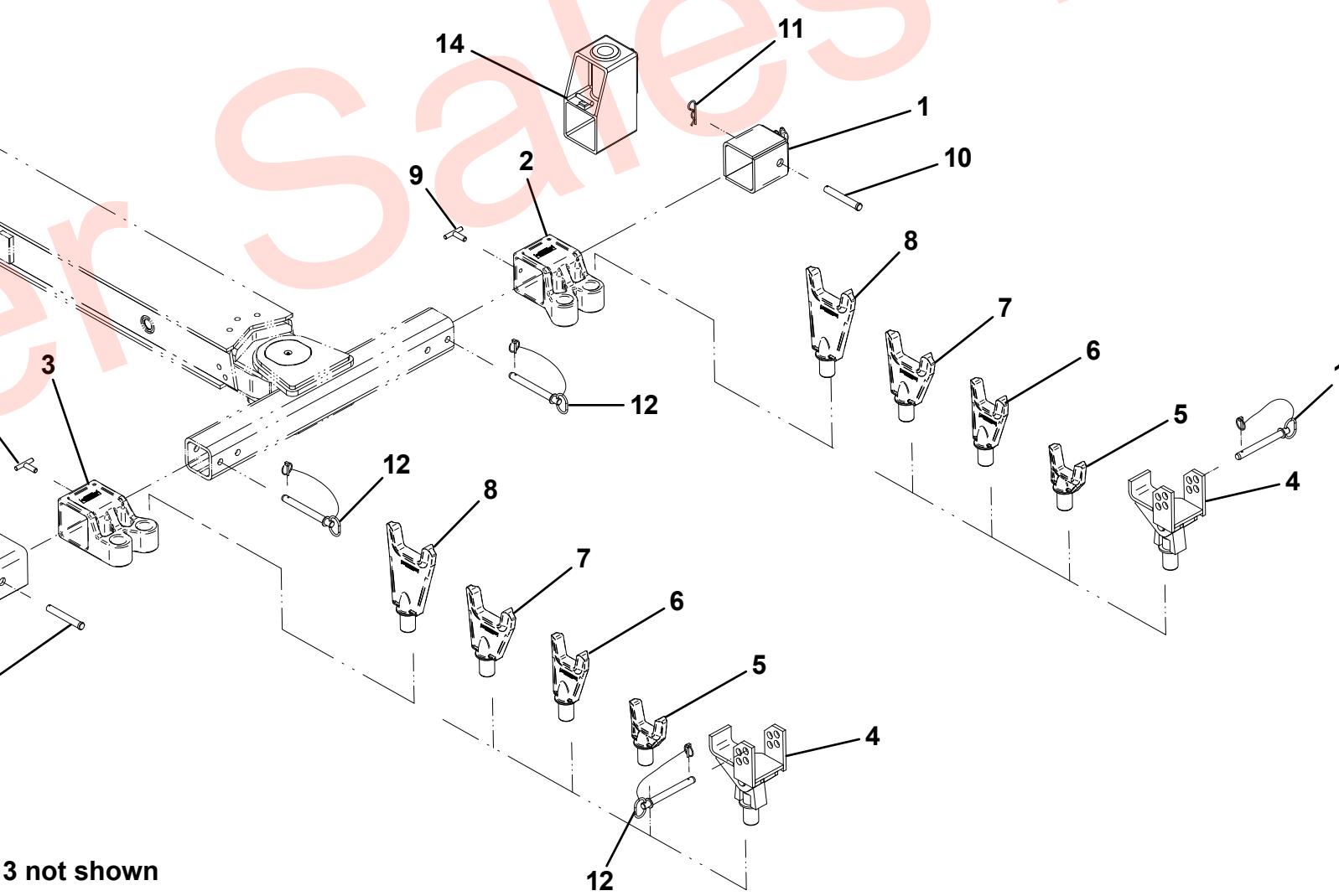
**TRAILER AUXILIARY INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	7346000055	Electrical Receptacle	1
2	7346000078	Electrical Boot	1
3	7115150864	Bolt, 0.31"-18NC x 1.00"	2
4	7950150161	Flatwasher, 0.31" ID	2
5	7660152601	Locknut, 0.31"-18NC	2
6	7312000015	Gladhand, Blue	1
7	7312000016	Gladhand, Red	1
8	7446502518	Fitting	2
9	7445060435	Fitting	4
10	7565000014	Airline, 0.38" OD	50ft
11	7443000148	Bushing	2
12	7443000146	Elbow	2
13	7443000145	Bushing	2
14	7577000145	Seal Kit	1

**TRAILER AUXILIARY INSTALLATION**

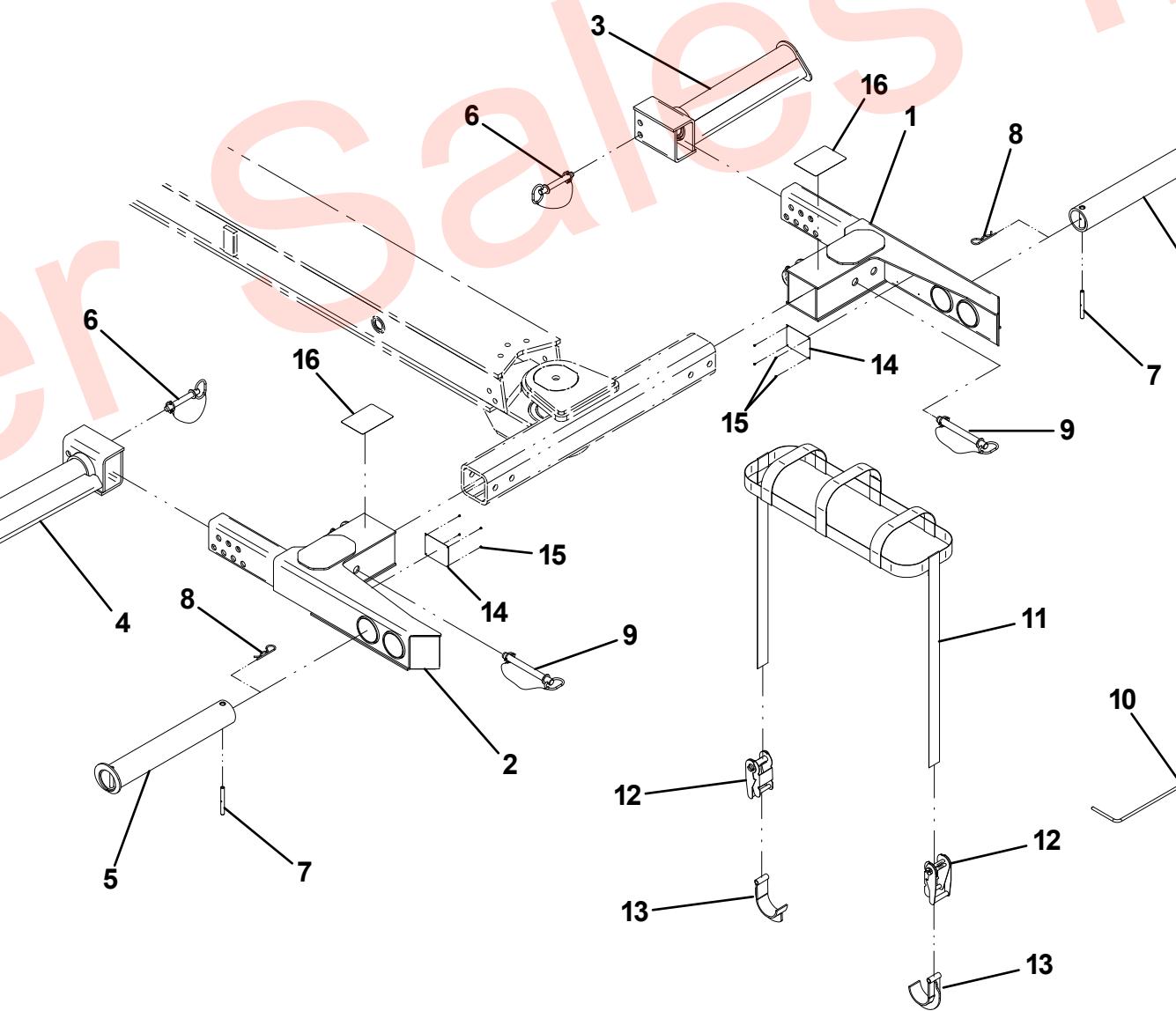
**UNDERLIFT TOOLS - FRAME FORKS**

ITEM	PART NO.	DESCRIPTION	QTY
1	3007000004	Adapter, Chain Hook	2
2	7007000056	Adapter, Frame Fork - RH	1
3	7007000055	Adapter, Frame Fork - LH	1
4	3178000226	Spring Lift Bracket	2
5	7454000006	Fork, 3.00" Short	2
6	7454000005	Fork, 3.00" Medium	2
7	7454000003	Fork, 4.50" Medium	2
8	7454000004	Fork, 4.50" Long	2
9	3551000036	T-Handle	2
10	7691000022	Pin	2
11	7691000020	Hairpin	2
12	7691000021	Hitch Pin	2
13	7262000026	Chain, Tie-Down	2
14	1001170172	Optional Frame Fork Riser	2

**UNDERLIFT TOOLS - FRAME FORKS**

**UNDERLIFT TOOLS - 14,000 LB TIRE LIFT**

ITEM	PART NO.	DESCRIPTION	QTY
1	3484000048	Tire Lift Grid - RH	1
2	3484000049	Tire Lift Grid - LH	1
3	3020000120	Tire Lift Arm Weldment - RH	1
4	3020000119	Tire Lift Arm Weldment - LH	1
5	3912000038	Tire Lift Tube Weldment - 23" Long	2
	3912000033	Tire Lift Tube Weldment - 27.5" Long	2
6	7691000026	Hitch Pin	2
7	4691000274	Pin	2
8	7691000020	Hairpin	2
9	7691000021	Hitch Pin	2
10	4561000012	Hook, Pull	1
11	7894000037	Strap, 2" Wide (Standard - Yellow)	2
	7894000041	Strap, 2" Wide (Optional - Orange)	1
12	7894000028	Ratchet, 2" Wide Strap	4
13	3561000008	Hook, 2" Wide Strap	4
14	7330000550	Decal	2
15	7759000004	Rivet	8
16	7330000278	Decal	2

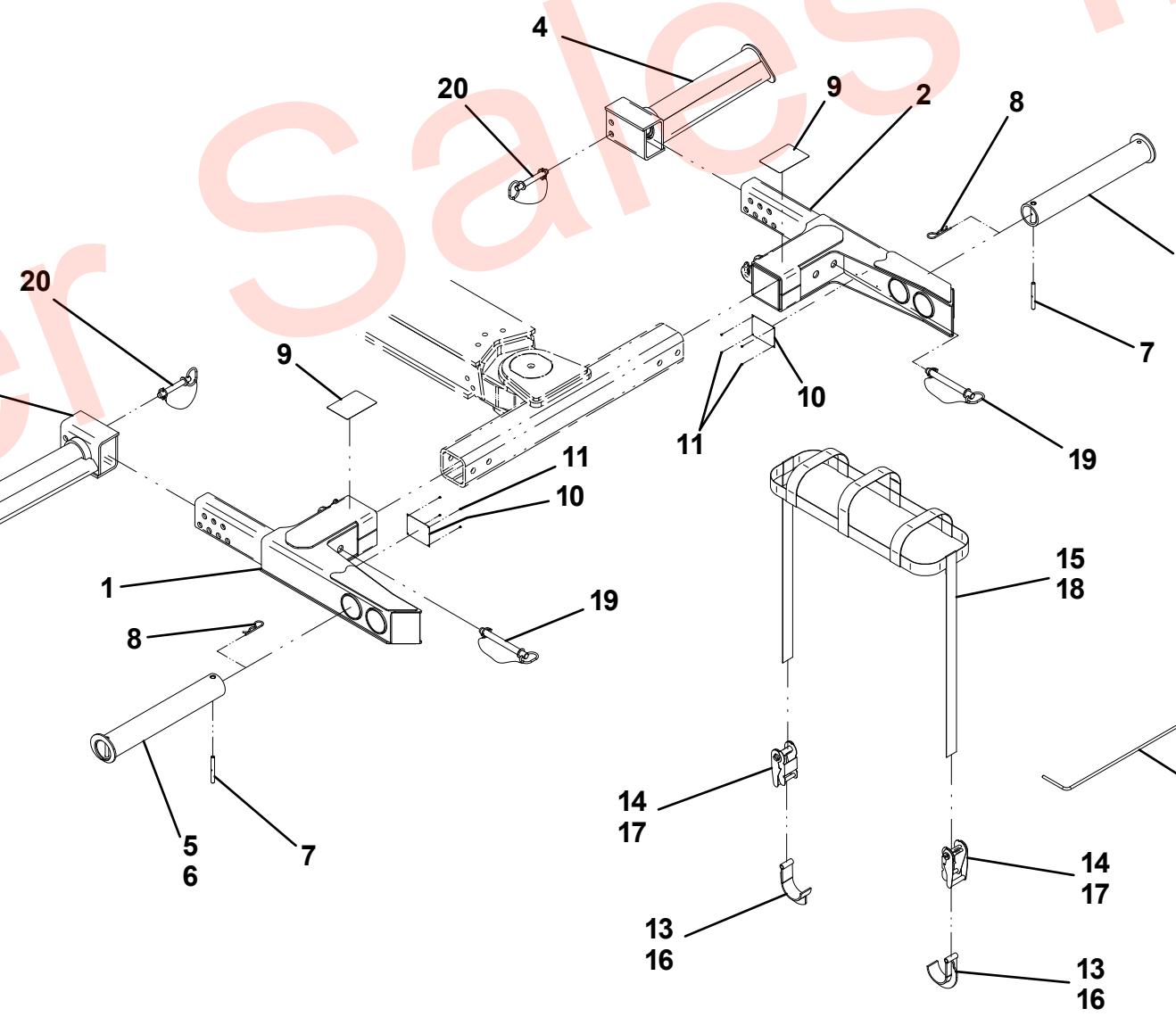
**UNDERLIFT TOOLS - 14,000 LB TIRE LIFT**

**UNDERLIFT TOOLS - 25,000 LB TIRE LIFT**

ITEM	PART NO.	DESCRIPTION	QTY
1	3484000072^	Tire Lift Grid - LH	1
2	3484000073^	Tire Lift Grid - RH	1
3	3020000119^	Tire Lift Arm Weldment - LH	1
4	3020000120^	Tire Lift Arm Weldment - RH	1
5	3912000038^	Tire Lift Tube Weldment - 23" Long	2
6	3912000033^	Tire Lift Tube Weldment - 27.5" Long	2
7	4691000274^	Pin	2
8	7691000020^	Hairpin	2
9	7330000278^	Decal	2
10	7330000550^	Decal	2
11	7759000004^	Rivet	8
12	4561000012^	Hook, Pull	1
13	3561000015*	Hook, 3" Wide Strap	4
14	7894000060*	Ratchet, 3" Wide Strap	4
15	7894000057*	Strap, 3" Wide	2
16	3561000008^	Hook, 2" Wide Strap	4
17	7894000028^	Ratchet, 2" Wide Strap	4
18	7894000037^	Strap, 2" Wide	2
19	7691000021	Hitch Pin	2
20	7691000026^	Hitch Pin	2

^ Also available as - 2502880300

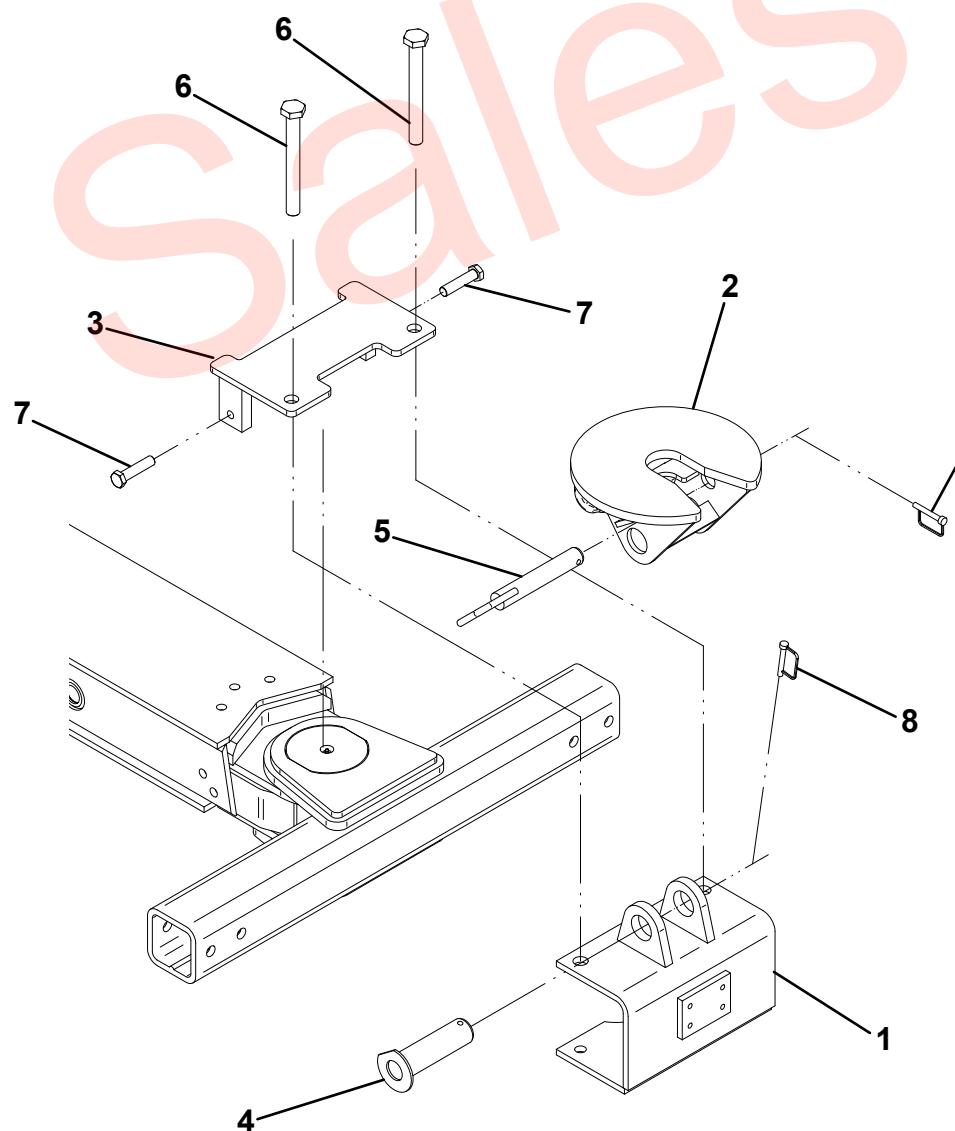
\* Available in Strap Kit - 7577000368

**UNDERLIFT TOOLS - 25,000 LB TIRE LIFT**

**UNDERLIFT TOOLS - FIFTH WHEEL ATTACHMENT**

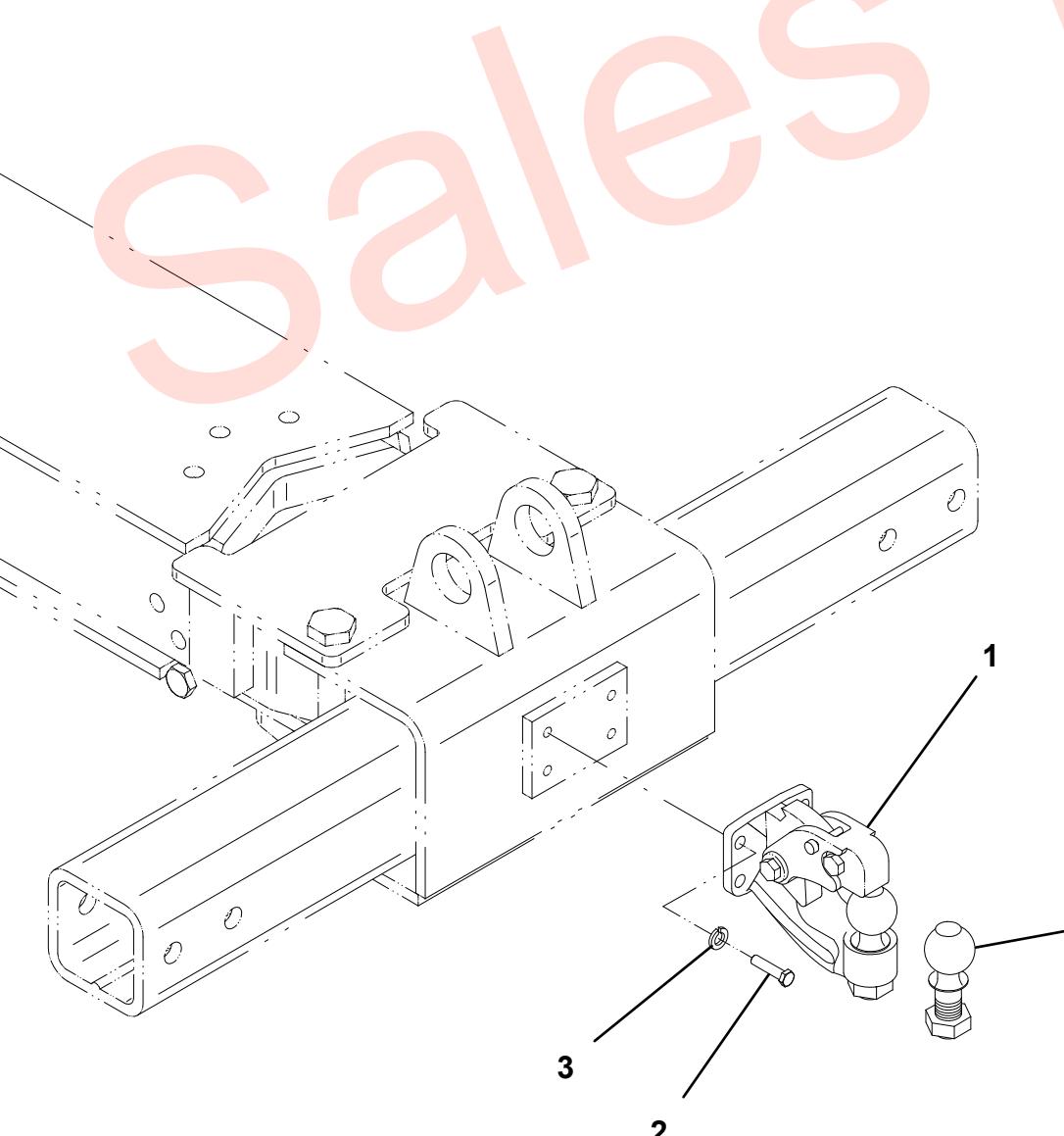
ITEM	PART NO.	DESCRIPTION	QTY
1	3178000240*	Bracket Weldment	1
2	3178000499*	Bracket, Fifth Wheel Weldment	1
3	3706000080*	Plate Weldment	1
4	3691000144*	Pin	1
5	3691000145*	Pin	1
6	7118267250*	Capscrew, 1.00"-8NC x 9.00"	2
7	7120000036*	Capscrew, 0.75"-10NC x 3.25"	2
8	7691000025*	Pin	2

\* Also available as - 2503880033

**UNDERLIFT TOOLS - FIFTH WHEEL ATTACHMENT**

**UNDERLIFT TOOLS - PINTLE HOOK**

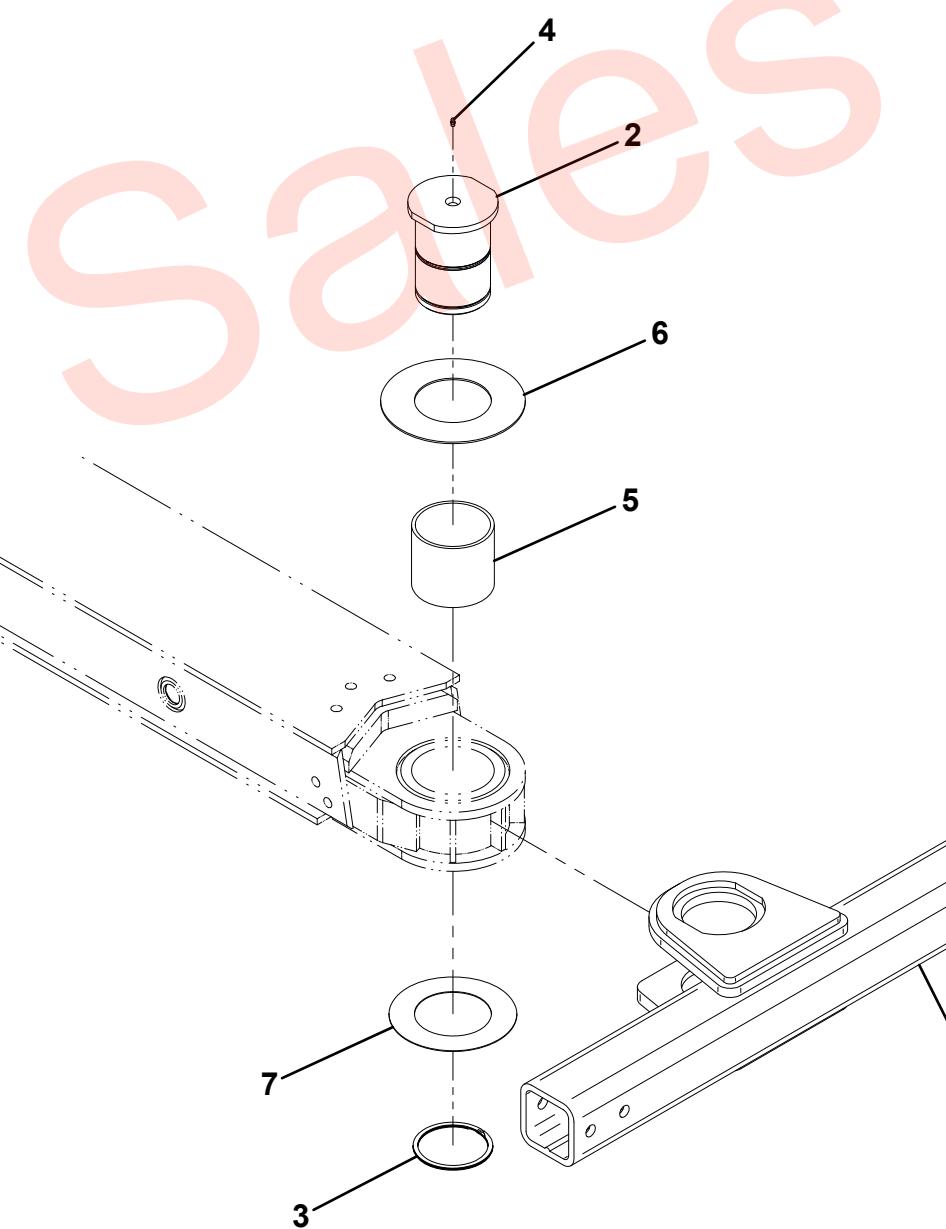
ITEM	PART NO.	DESCRIPTION	QTY
1	7561000020	Hitch, Pintle Hook with 2" Dia. Ball	1
2	7118181250	Capscrew, 0.50"-13NC x 1.50"	4
3	7950180000	Lockwasher, 0.50" ID	4
4	7056000003	Ball, 1.88" Dia	1
	7056000004	Ball, 2.00" Dia	
	7056000005	Ball, 2.31" Dia	
	7056000006	Ball, 50mm Dia	

**UNDERLIFT TOOLS - PINTLE HOOK**

**CROSSTUBE INSTALLATION**

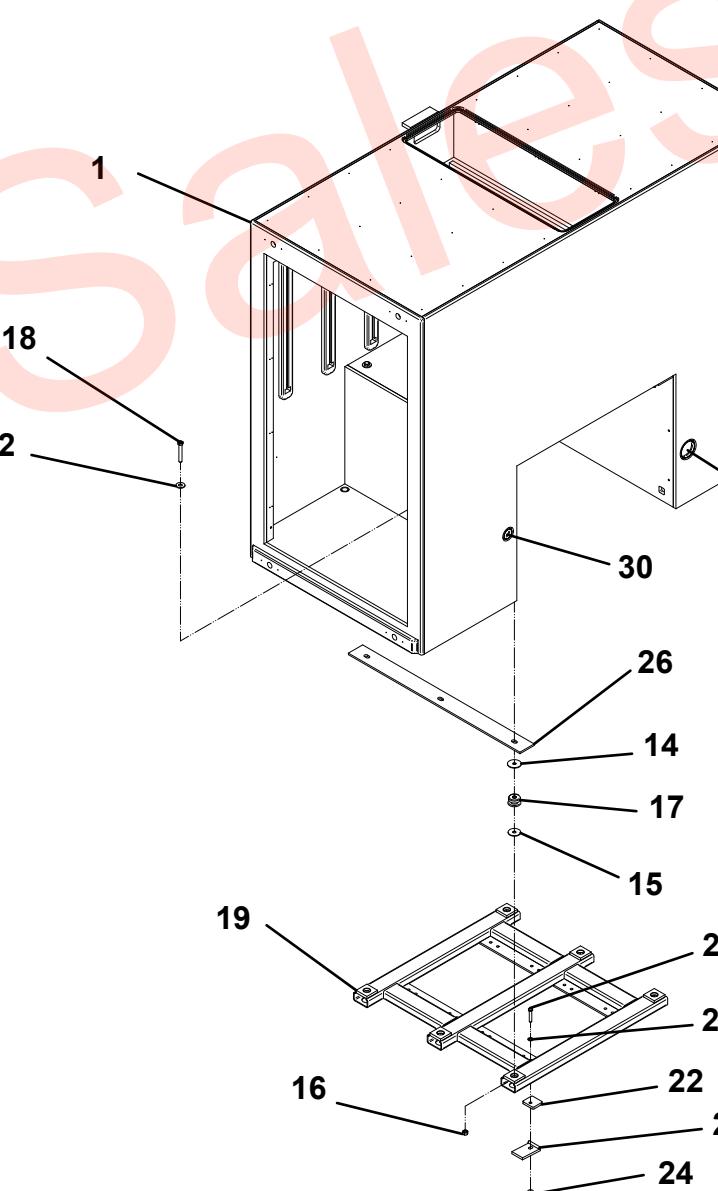
ITEM	PART NO.	DESCRIPTION	QTY
1	3913000094	Crosstube Weldment	1
2	4691000242	Pin	1
3	7754000042	Retaining Ring	1
4	7440300000	Grease Fitting	1
5	7209000022	Bushing	1
6	4949000041*	Washer, 0.125" Thk	1
7	4949000042*	Washer, 0.63" Thk	2

\* Available in Shim Kit - 3577000018

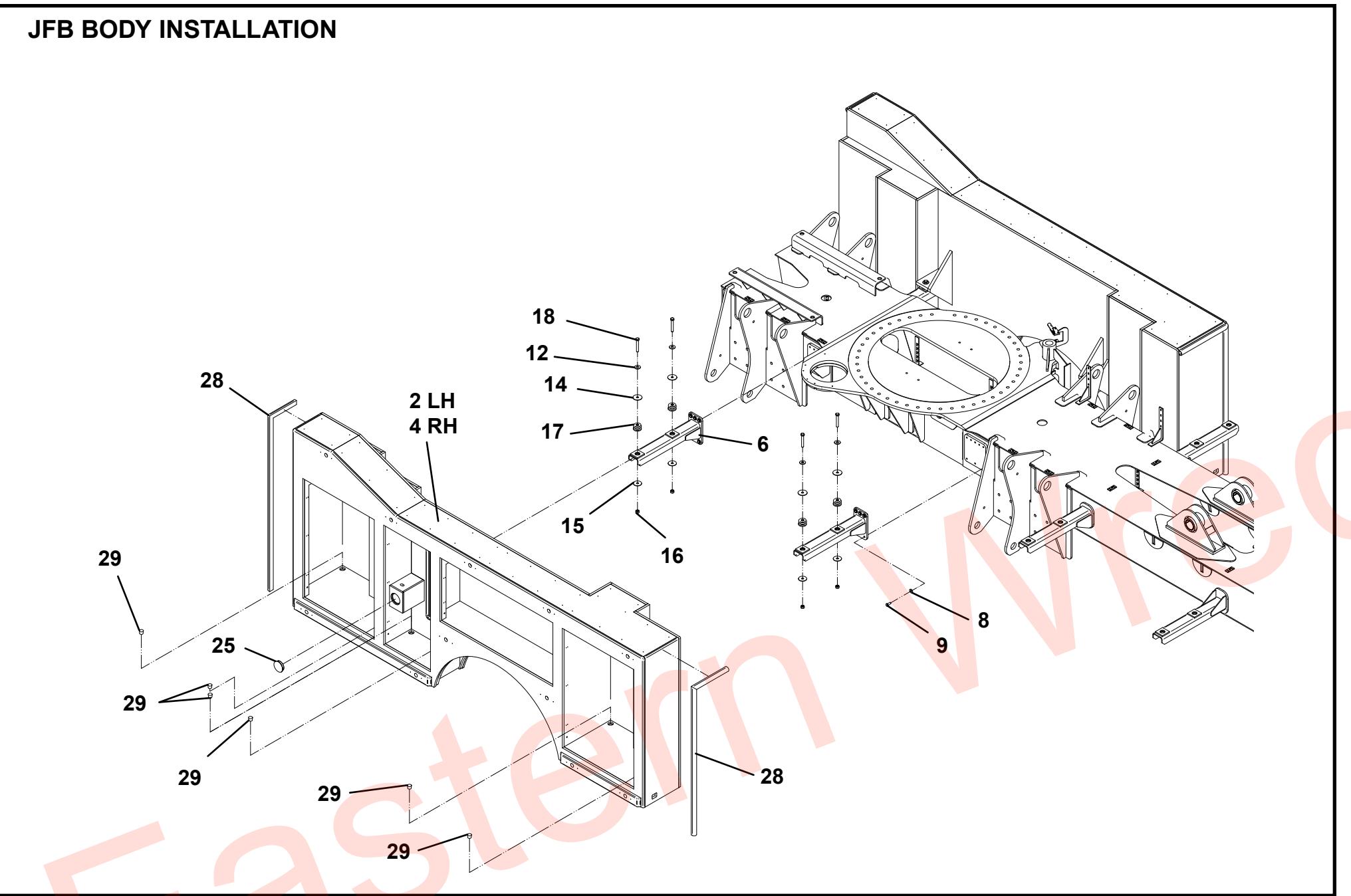
**CROSSTUBE INSTALLATION**

**JFB BODY INSTALLATION**

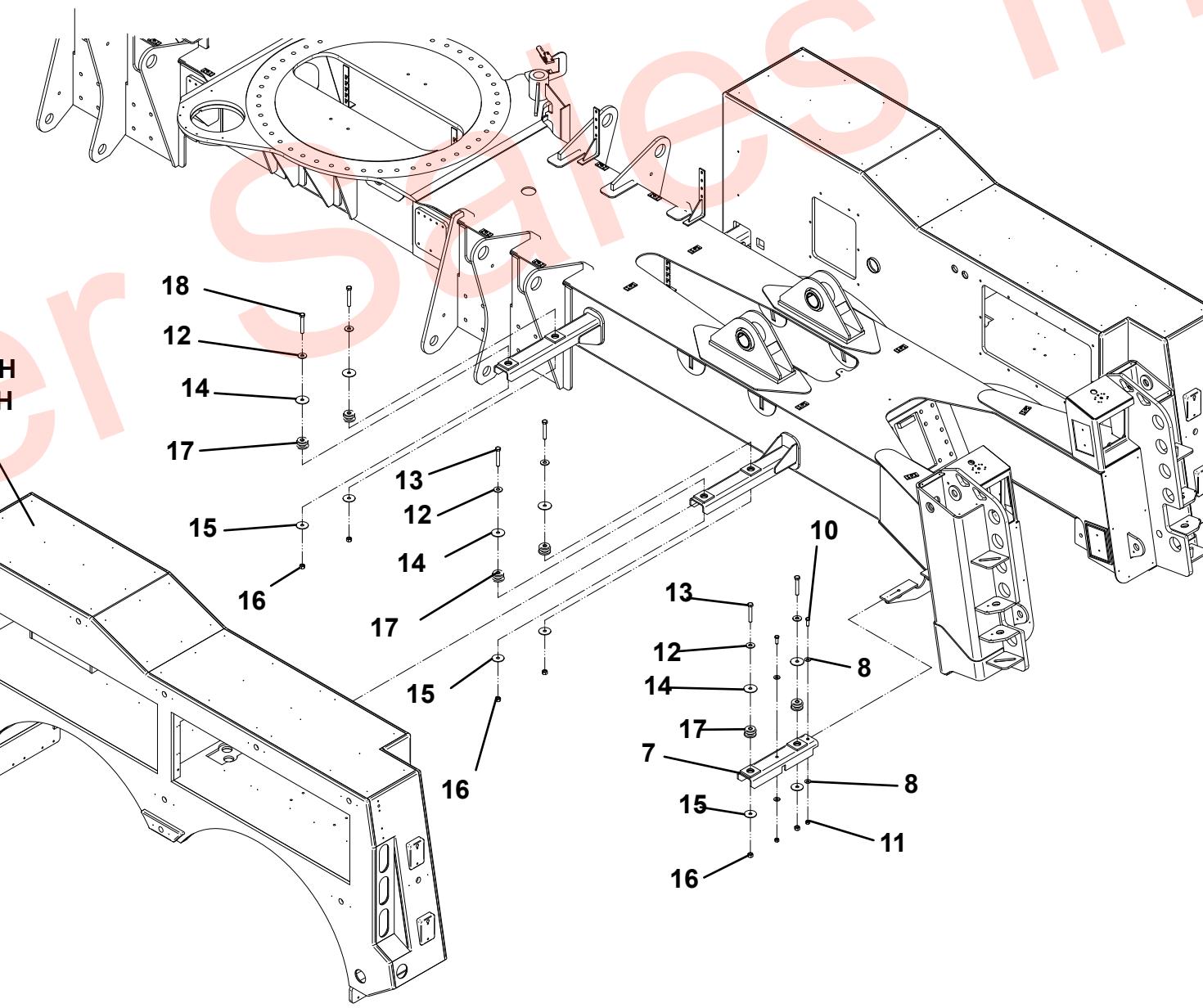
ITEM	PART NO.	DESCRIPTION	QTY
1	1001166100	Box, Tunnel Toolbox	1
2	1001166098	Box, Mid Body LH	1
3	1001166095	Box, Rear Body LH	1
4	1001166099	Box, Mid Body RH	1
5	1001166097	Box, Rear Body RH	1
6	1001164154	Mount, Mid Body	4
7	1001164193	Mount, Rear Body	2
8	7950180150	Flatwasher, 0.50" ID	28
9	7115181050	Capscrew, 0.50"-13NC x 1.25"	20
10	7115181250	Capscrew, 0.50"-13NC x 1.50"	4
11	7660182601	Locknut, 0.50"-13NC	4
12	7950200161	Flatwasher, 0.63"	26
13	7115203250	Capscrew, 0.62"-11NC x 4.00"	8
14	7949000019	Washer	26
15	7949000020	Washer	26
16	7660200001	Nut, 0.63"-11NC	26
17	7636000008	Mount	26
18	642034	Capscrew, 0.62"-11 NC x 4.25"	18
19	3911000068	49" Tunnel Toolbox Mount	1
20	7115182250	Capscrew, 0.50"-13NC X 2.75"	8
21	7950180252	Flatwasher, 0.50" ID	8
22	4705000705	Plate	8
23	3274000011	Clamp	8
24	7660182301	Locknut, 0.50"-13NC	8
25	1001151789	Plug	3
26	1001165692	Support Plate	2
27	100011	Thread Locker	A/R
28	8632000011	Rubber Seal	24.8 ft
29	1001173847	Plug	16
30	1001177203	Plug, 3.89"	1
31	1001177202	Plug, 2.35"	1

**JFB BODY INSTALLATION**

# JFB BODY INSTALLATION

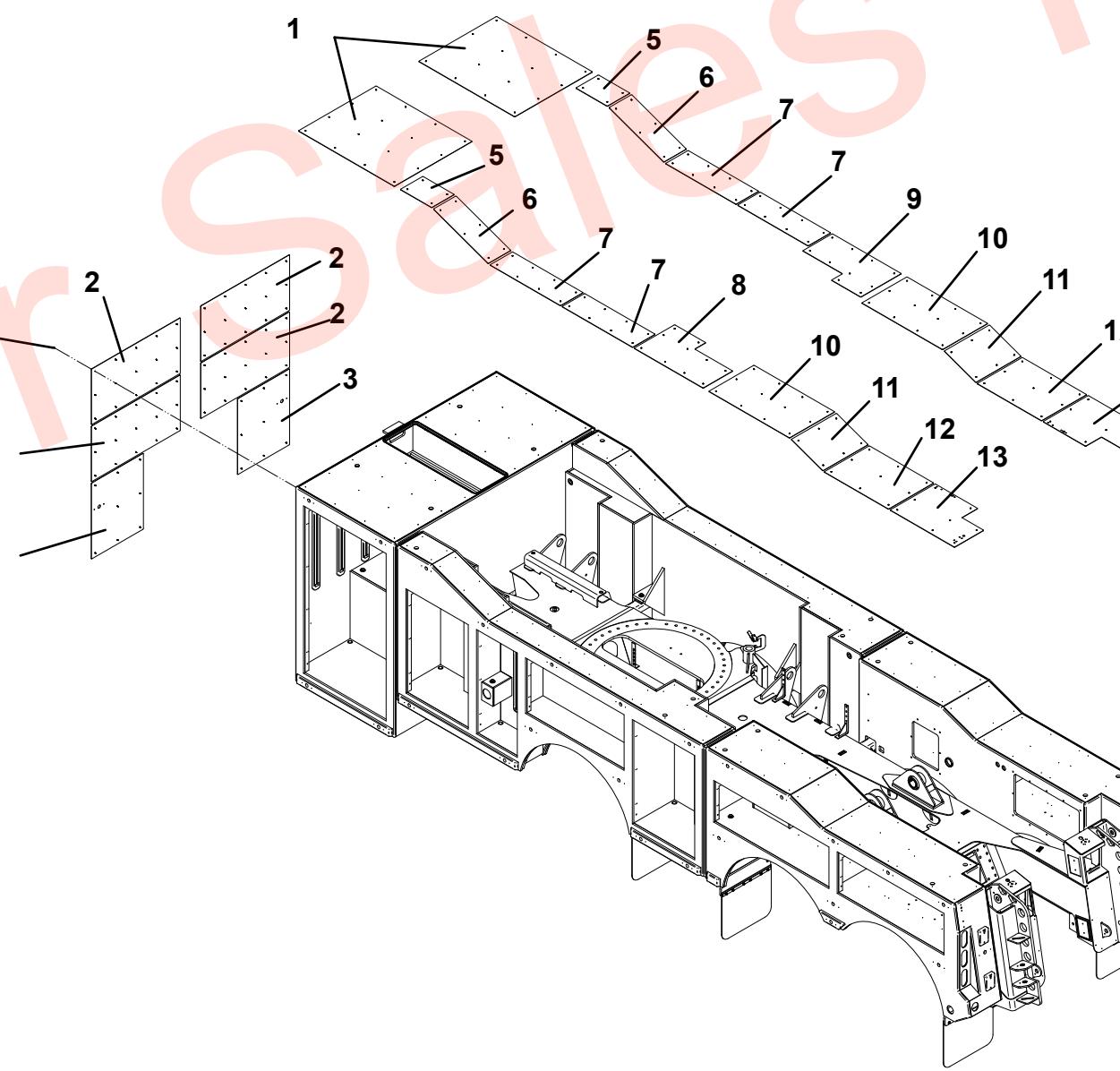


# **B BODY INSTALLATION**



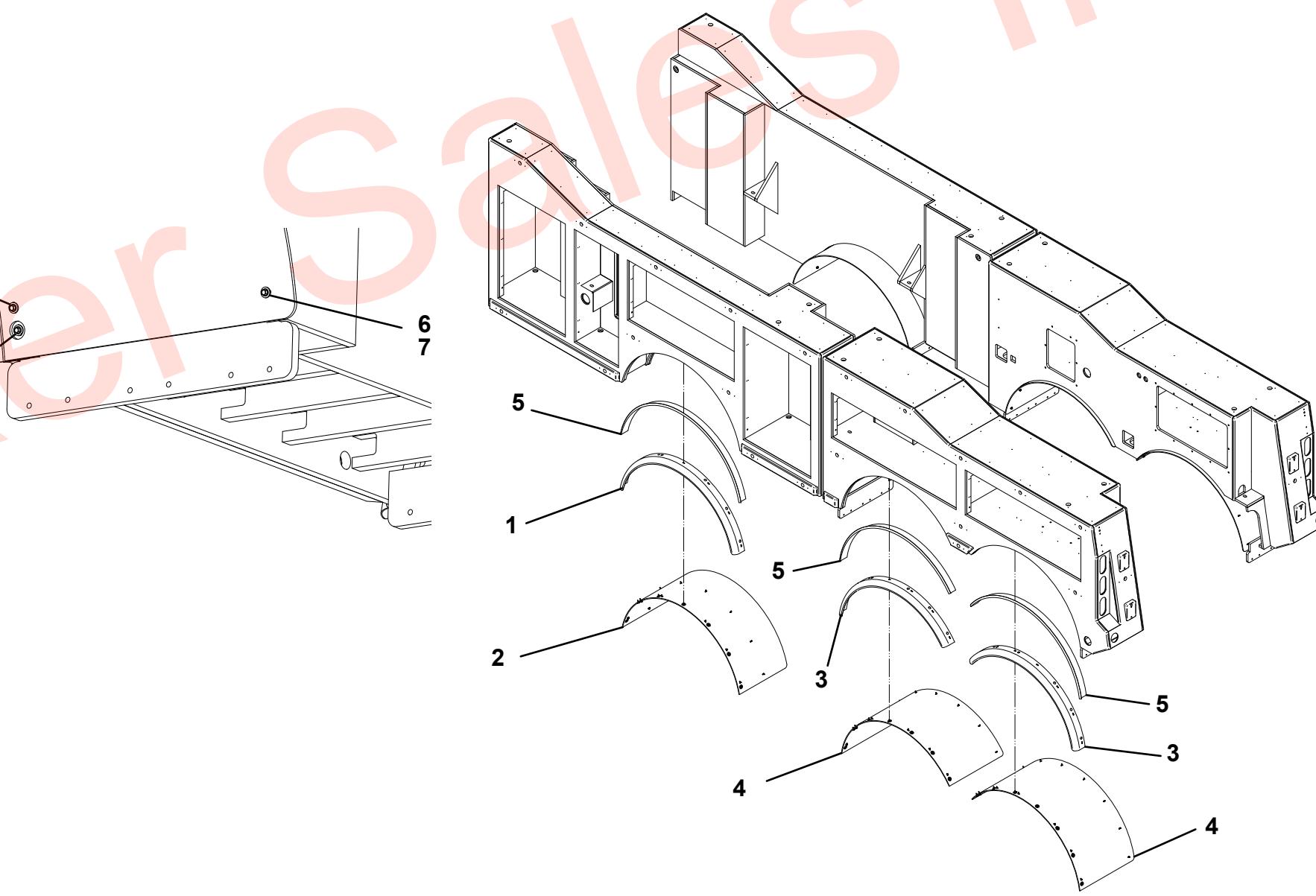
**DIAMOND PLATE INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001163396	Plate,	2
2	1001172127	Plate	4
3	1001172120	Plate	1
4	1001172121	Plate	1
5	1001163428	Plate	2
6	1001163446	Plate	2
7	1001163447	Plate	4
8	1001163453	Plate	1
9	1001163454	Plate	1
10	1001163615	Plate	2
11	1001163626	Plate	2
12	1001163628	Plate	2
13	1001163629	Plate	1
14	1001163630	Plate	1
15	1001166322	Screw,#10-12 X 0.62"	250

**DIAMOND PLATE INSTALLATION**

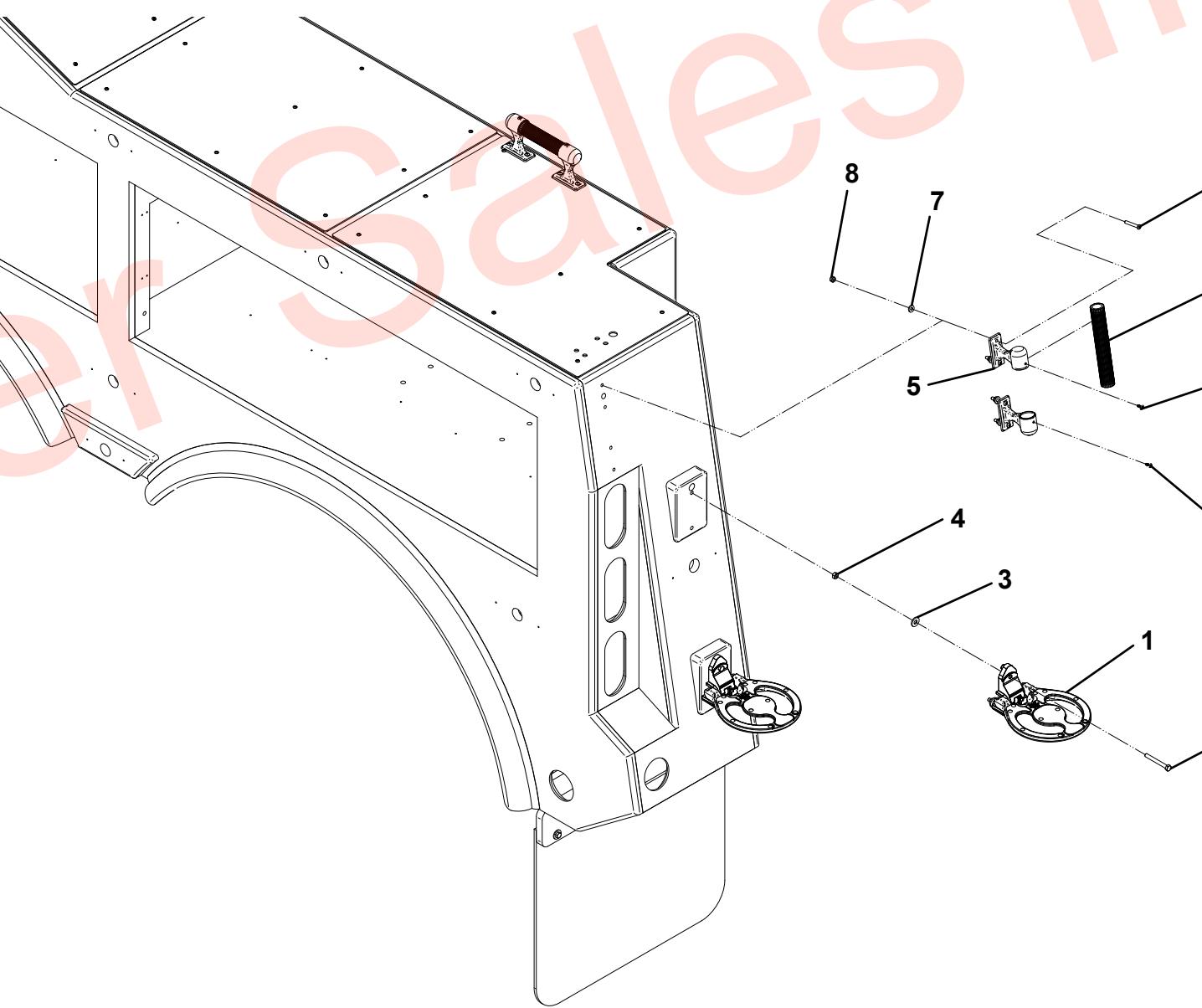
**FENDER FLARE AND LINER INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001163357	Fender, Mid Body	2
2	1001167351	Fender Liner, Mid Body	2
3	1001163358	Fender, Rear Body	4
4	1001167352	Fender Liner, Rear Body	4
5	1001167358	Moulding	0.4
6	7950140163	Flatwasher, 0.25" ID	120
7	7790141651	Screw, 0.25" X 1.00"	78
8	7790141251	Screw, 0.25" X 0.75"	42

**FENDER FLARE AND LINER INSTALLATION**

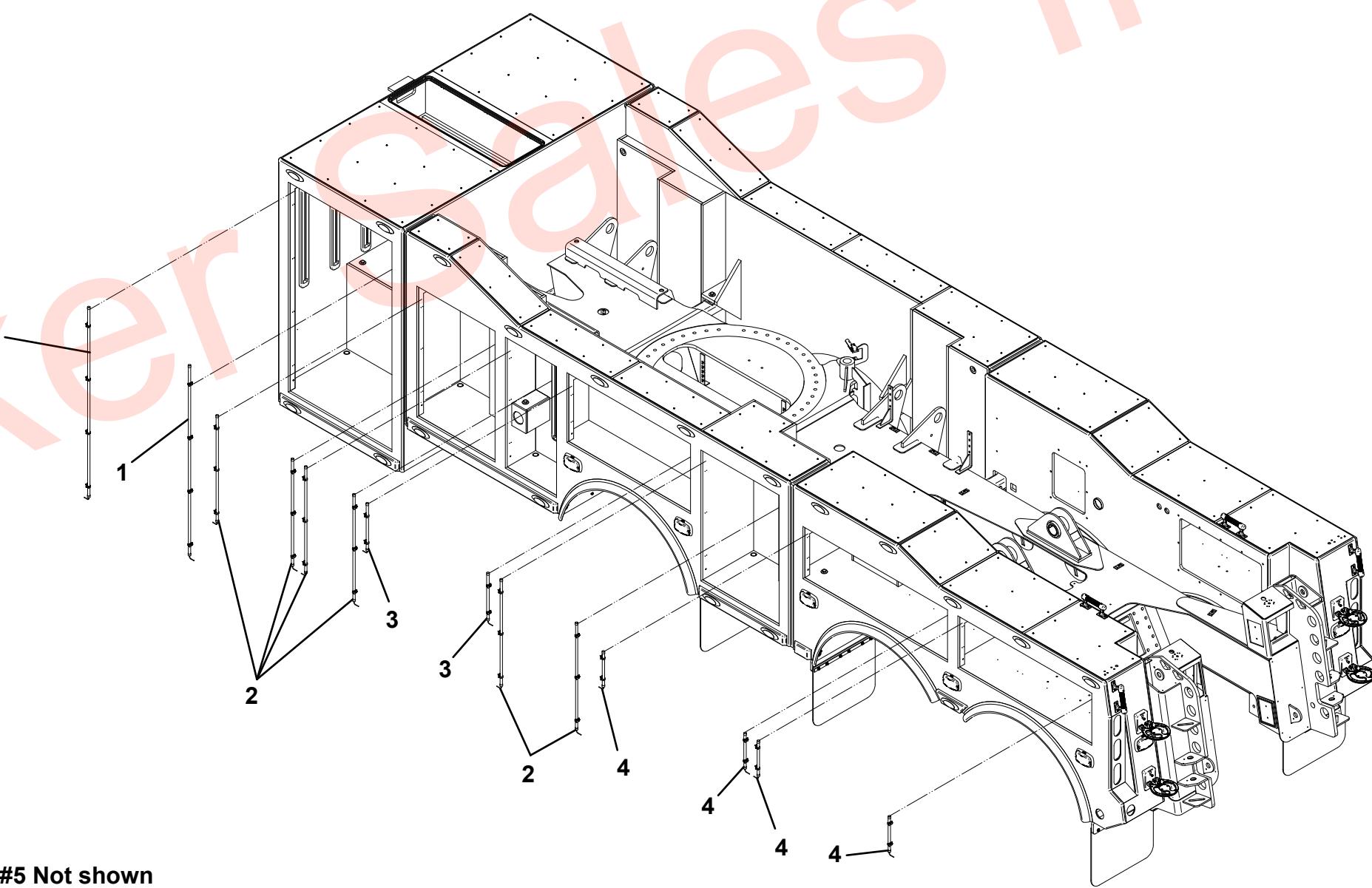
**GRAB HANDLE AND STEP INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001167456	Step	4
2	1001167455	Screw, 0.31"-18NC x 2.75"	8
3	7950150153	Flatwasher, 0.31" ID	8
4	7660152601	Locknut, 0.31"-18NC	8
5	1001170849	Handle	4
6	1001170935	Screw, 0.25"-20NC x 1.75"	16
7	7950140143	Flatwasher, 0.25" ID	16
8	7660142601	Locknut, 0.25"-20NC	16
9	1001170937	Screw, #10-24 x 0.50"	8

**GRAB HANDLE AND STEP INSTALLATION**

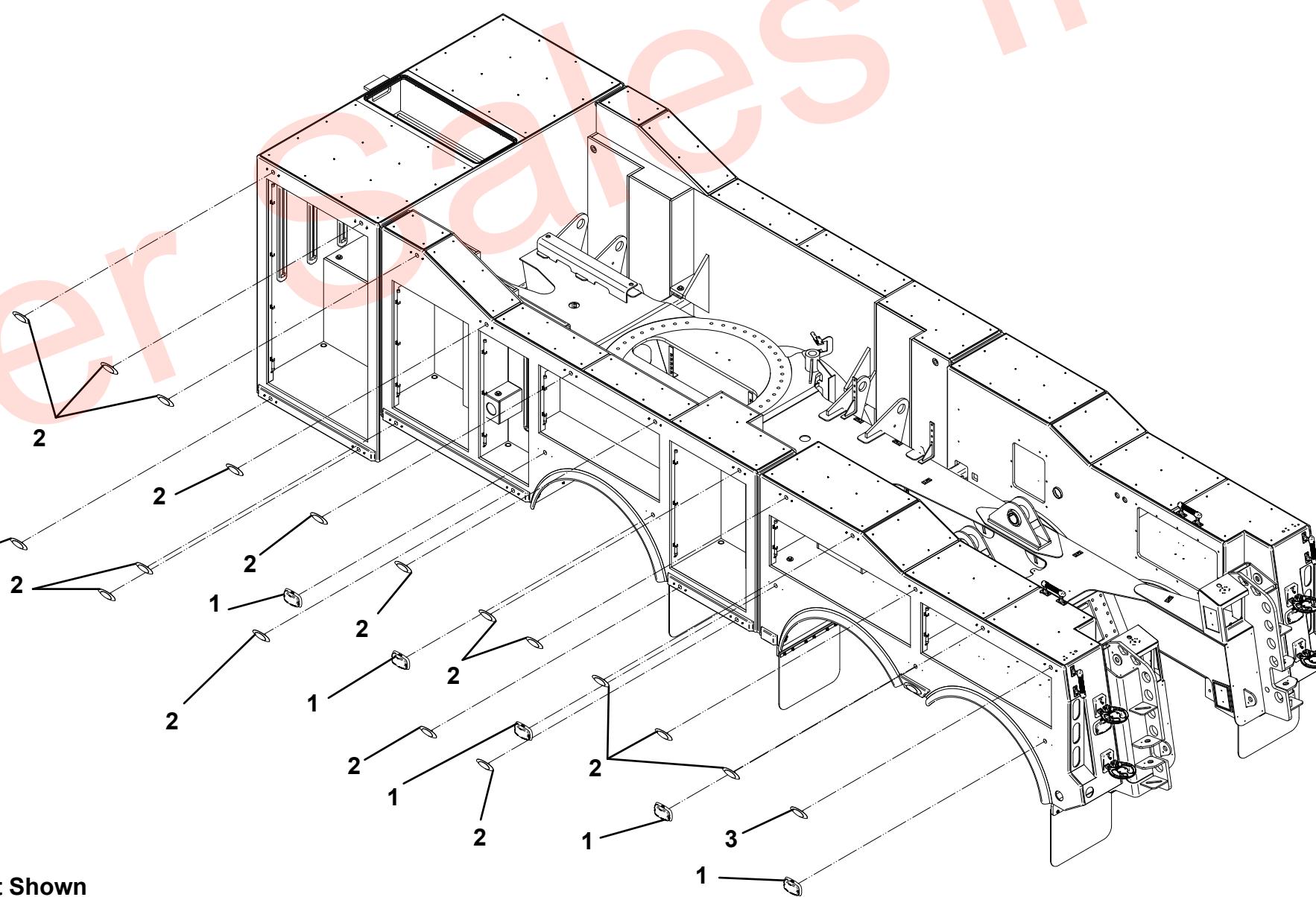
**COMPARTMENT LIGHT INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001166546	LED Light, 64"	4
2	1001166547	LED Light, 36"	12
3	1001166548	LED Light, 16"	4
4	1001166549	LED Light, 12"	8
5	1001154530	Screw, #8 x 0.62"	152

**COMPARTMENT LIGHT INSTALLATION**

**BODY LIGHT INSTALLATION**

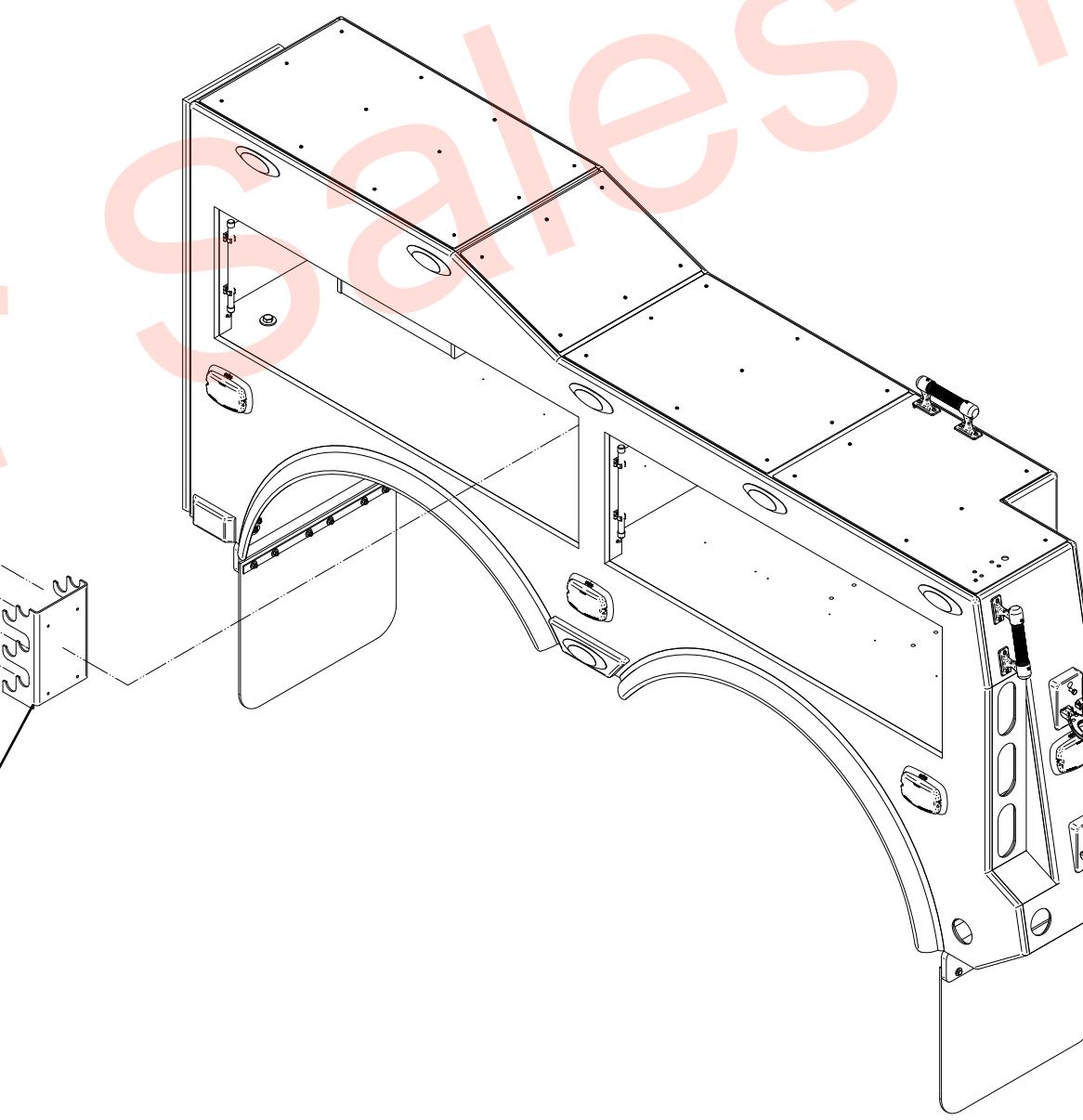
ITEM	PART NO.	DESCRIPTION	QTY
1	1001130427	Light, Whelen	12
2	7590000262	Light, Amber	38
3	7590000282	Light, Red	2
4	1001154101	Screw, #10 x 0.50"	80

**BODY LIGHT INSTALLATION**

Item #4 Not Shown

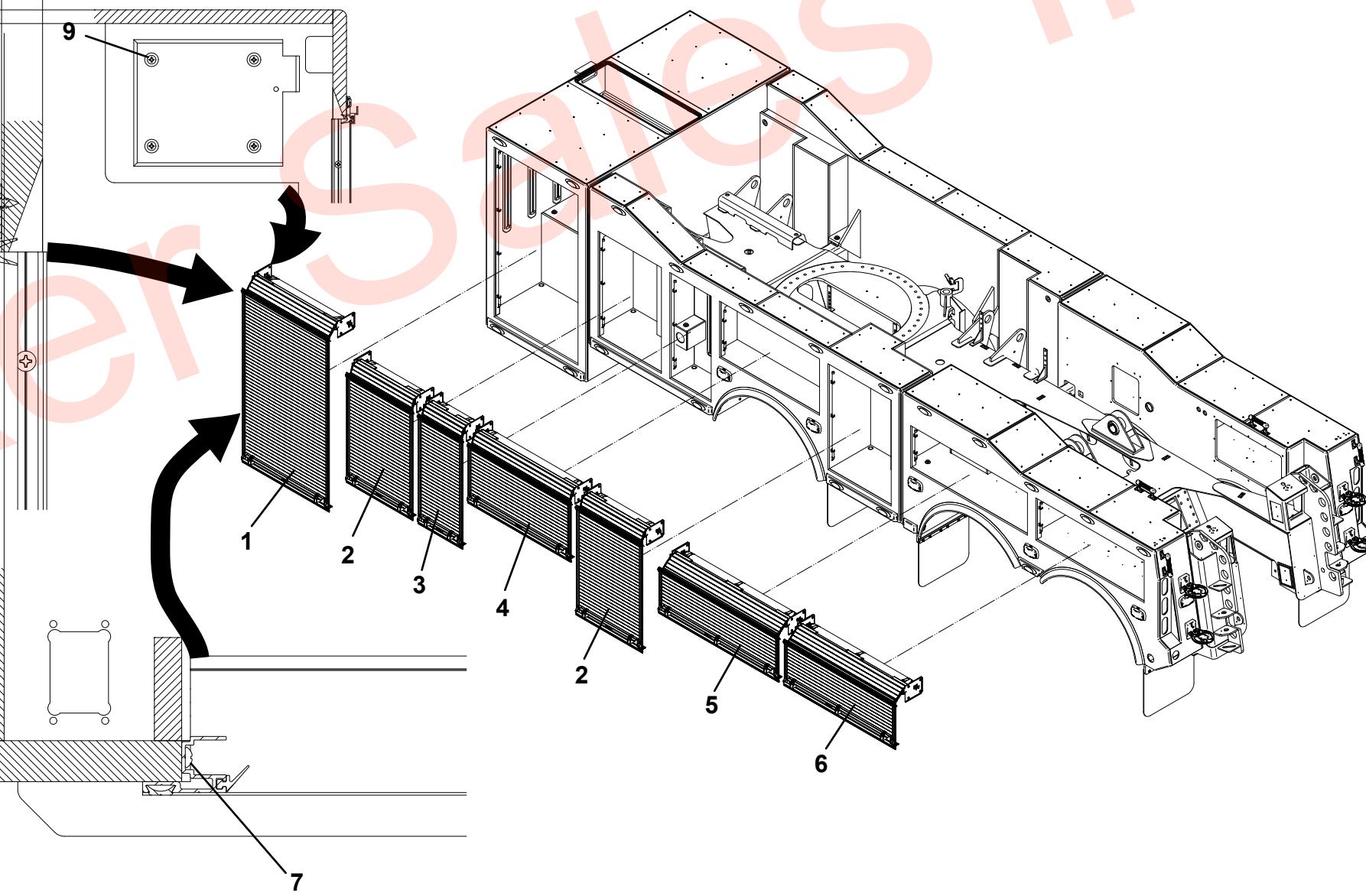
**PIN STORAGE INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001166898	Bracket	2
2	1001141265	Screw, #14 x 0.75"	8

**PIN STORAGE INSTALLATION**

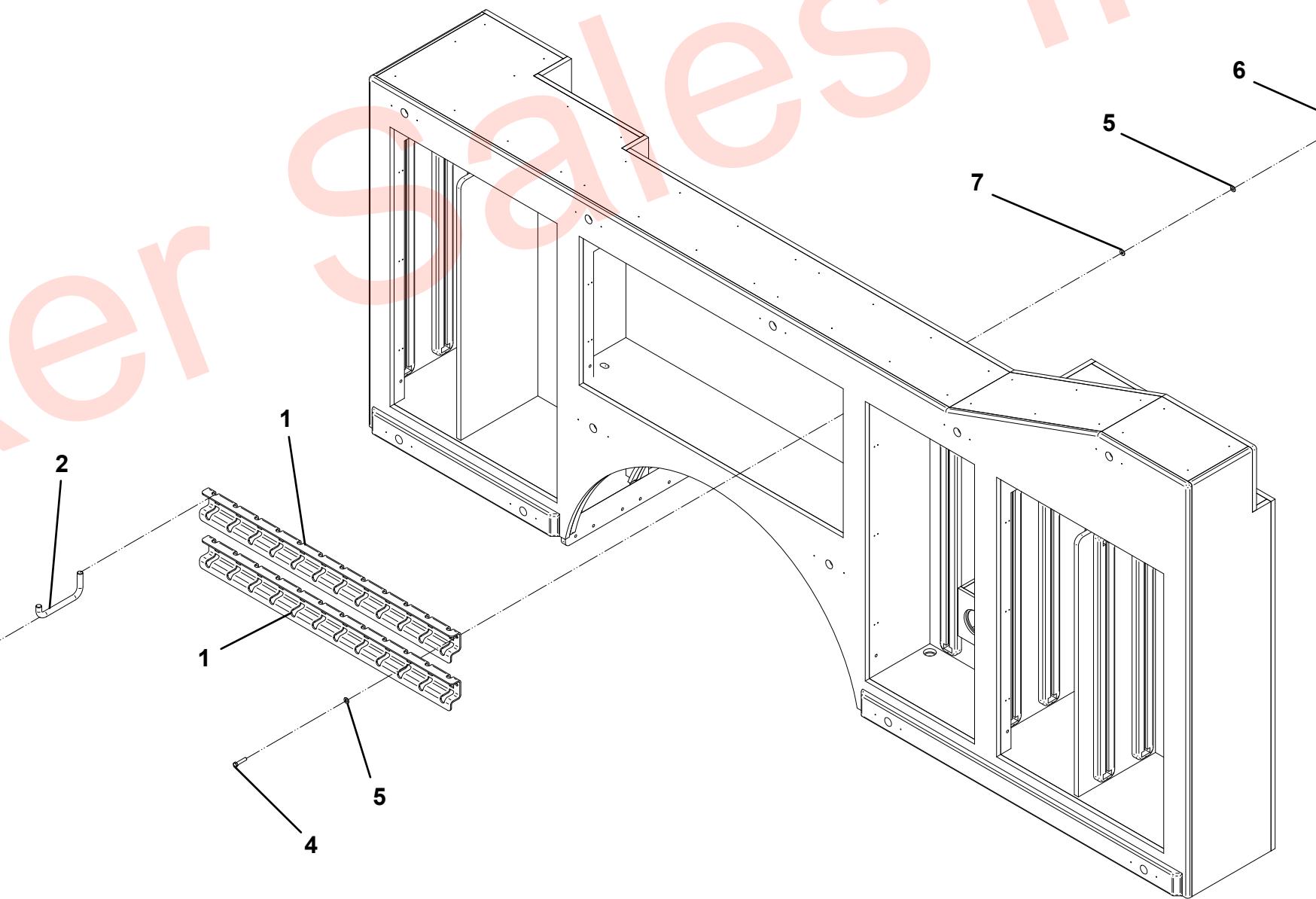
**JFB BODY DOOR INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001171674	Door, 40.25" X 70.56"	2
2	1001171669	Door, 30.38" X 44.00"	4
3	1001171670	Door, 19.88" X 44.00"	2
4	1001171671	Door, 48.00" X 23.44"	2
5	1001171672	Door, 56.13" X 17.54"	2
6	1001171673	Door, 52.00" X 17.54"	2
7	1001166322	Screw, #10 X 0.62"	96
8	1001172004	Screw, #10 X 0.38"	60
9	1001176936	Screw, #14 X 0.75"	112

**JFB BODY DOOR INSTALLATION**

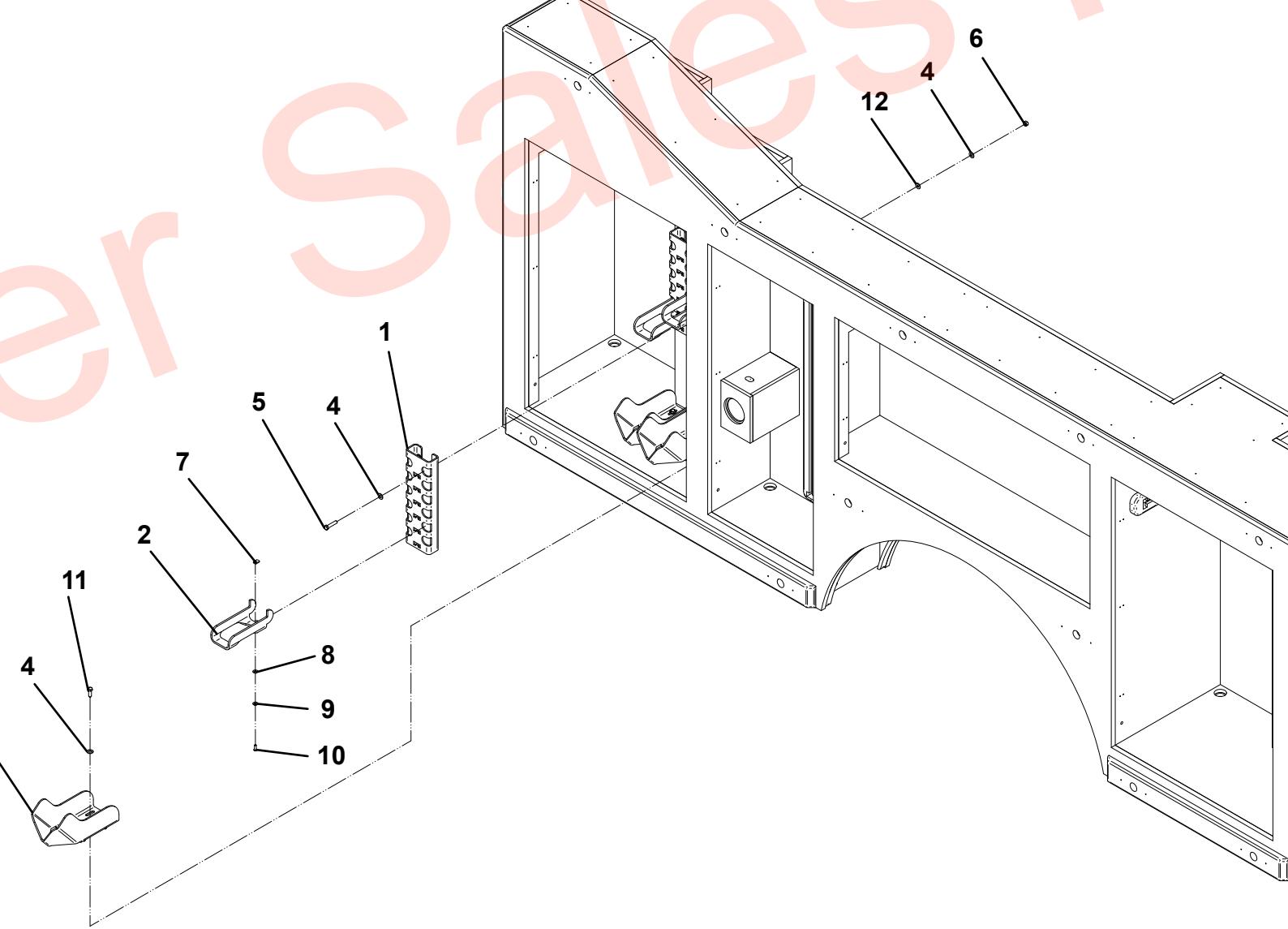
**SHACKLE STORAGE RACK INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001164601	Bracket	2
2	1001164614	Shackle Hook	24
3	7346000040	Tube	3.7ft
4	1001168544	Screw, 0.38"-16NC x 1.75"	10
5	7950160143	Flatwasher, 0.38"-16NC	20
6	7660162601	Locknut, 0.38"-16NC	10
7	1001166974	Washer, 0.38"ID	10

**SHACKLE STORAGE RACK INSTALLATION**

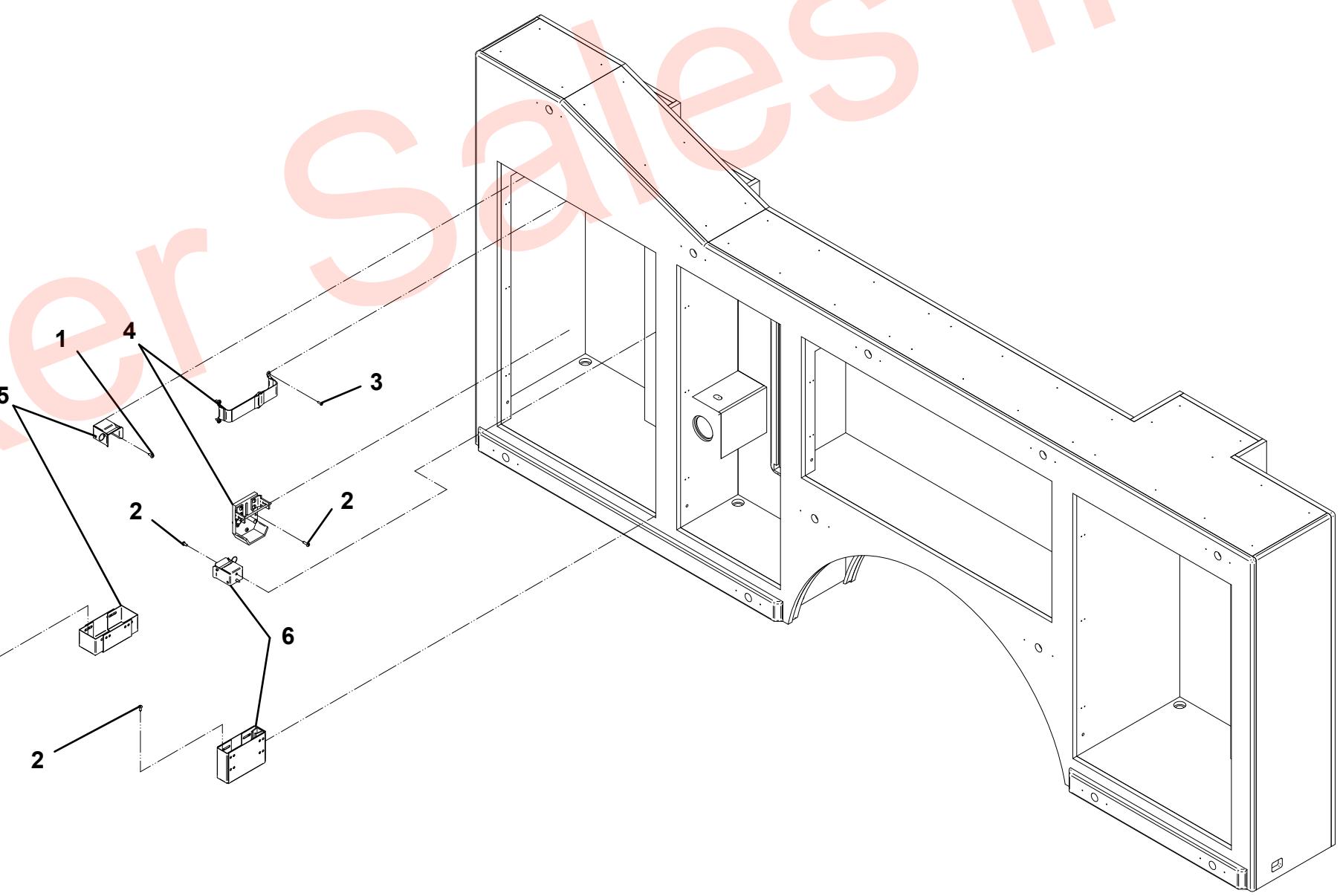
**SNATCH BLOCK STORAGE RACK INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001164558	Channel	6
2	1001164560	Bracket, Top Mount	6
3	1001164562	Bracket, Bottom Mount	6
4	7950160143	Flatwasher, 0.38"	72
5	1001168544	Screw, 0.38"-16NC x 1.75"	24
6	7660162601	Locknut, 0.38"-16UNC	24
7	1001168733	Nut, 0.25"-20NC	6
8	7950140143	Flatwasher, 0.25" ID	6
9	7950140003	Lockwasher, 0.25"	6
10	7114140618	Capscrew, 0.25"-20NC x 0.75"	6
11	1001168545	Screw, 0.38" x 1.25"	24
12	1001166974	Washer, 0.38" ID Rubber	24

**SNATCH BLOCK STORAGE RACK INSTALLATION**

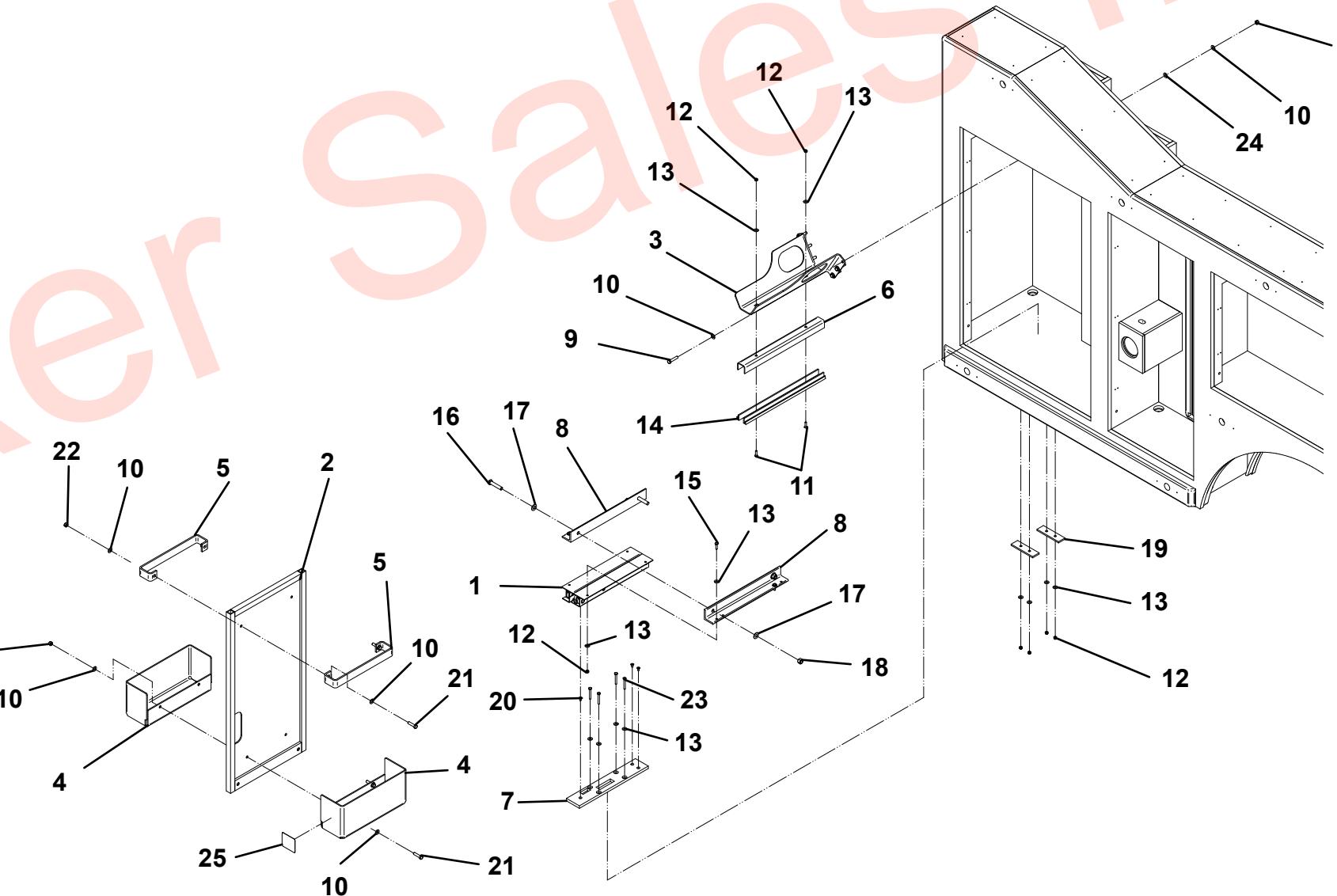
**TOOL STORAGE INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	0751406	Screw, 0.25" x 0.75"	4
2	0751408	Screw, 0.25" x 1.00"	7
3	0751006	Screw, #10 x 0.75"	4
4	1001175248	Bolt Cutter Mount	1
5	1001175249	Sledge Hammer Mount	1
6	1001175252	Ax Mount	1

**TOOL STORAGE INSTALLATION**

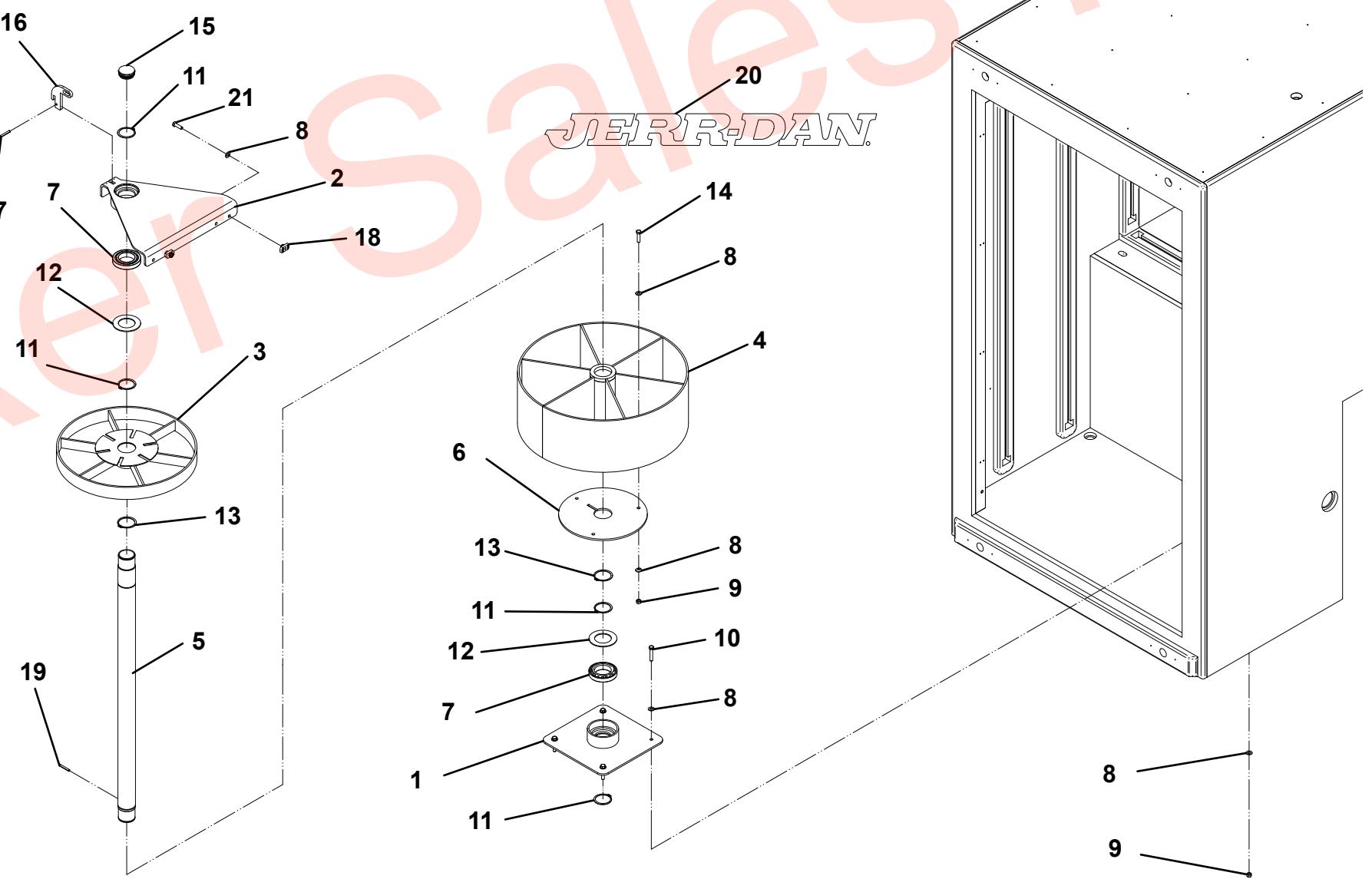
**SLIDE OUT CHAIN BOARD INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	7821000009	Slide Lock, Bottom Mount	1
2	1001164931	Chain Board	1
3	1001164872	Bracket, Top	1
4	1001138022	Tool Holder, Bottom	2
5	1001138021	Tool Holder, Top	2
6	1001164929	Channel	1
7	1001141149	Bar	1
8	4017001727	Angle	2
9	1001168544	Screw, 0.38"-16 X 1.75"	6
10	7950160141	Flatwasher, 0.38" ID	20
11	7114140823	Capscrew, 0.25"-20UNC x 1.00"	2
12	7660142601	Locknut, 0.25" -20UNC	10
13	7950140163	Flatwasher, 0.25" ID	18
14	1001164930	Pad	2
15	7115140850	Bolt, 0.25"-20UNC X 1.00"	4
16	7115182050	Capscrew, 0.50"-13UNC X 2.50"	2
17	7950180143	Flatwasher, 0.50" ID	4
18	7660182601	Locknut, 0.50"-13UNC	2
19	1001169140	Bar	2
20	7114140423	Capscrew, 0.25"-20NC X 0.50"	3
21	7115161250	Capscrew, 0.38"-16NC x 1.50"	4
22	7660162601	Locknut, 0.38"-16UNC	10
23	7115141650	Bolt, 0.25"-20NC X 2.00"	4
24	1001166974	Washer, 0.38" ID	6
25	1001170092	Decal, Toolboard Capacity	1

**SLIDE OUT CHAIN BOARD INSTALLATION**

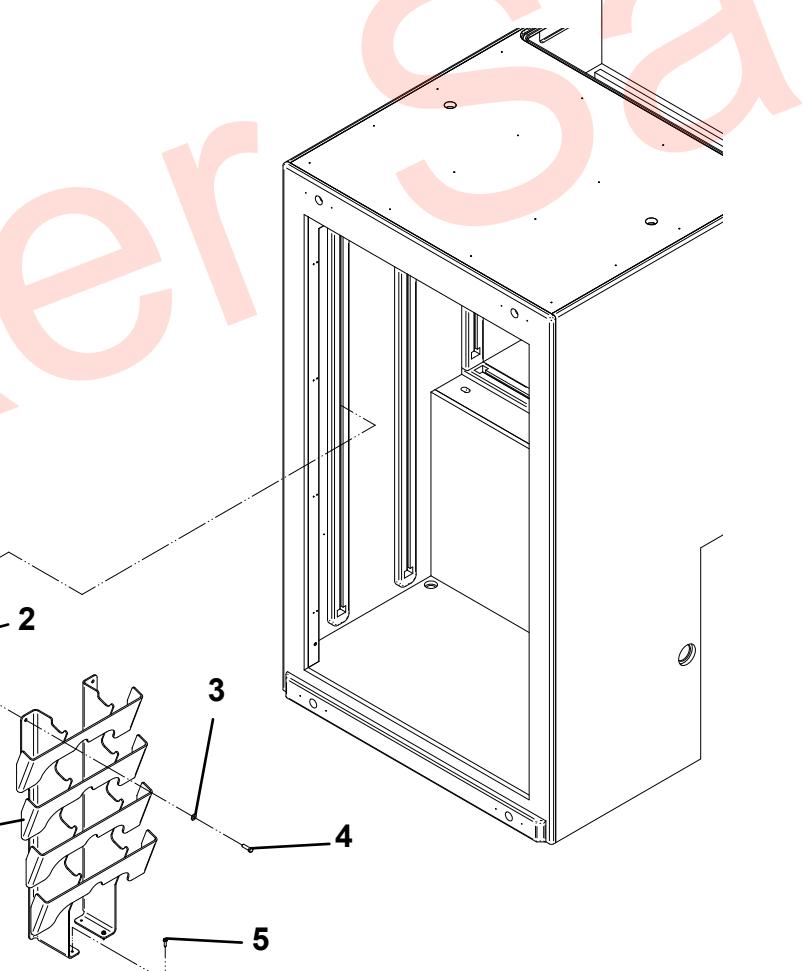
**ROTARY CHAIN RACK INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1001165571	Bracket	1
2	1001165570	Bracket	1
3	1001165587	Bracket	1
4	1001169144	Tray	1
5	1001165661	Tube	1
6	1001165652	Support	1
7	1001169076	Bearing	2
8	7950160143	Flatwasher, 0.38" ID	16
9	7660162604	Locknut, 0.38"-16NC	7
10	1001169083	Bolt, 0.38"-16NC X 2.00"	4
11	1001169064	Retaining Ring	4
12	1001165584	Plate	2
13	1001169063	Retaining Ring	2
14	1001168993	Screw, 0.38" X 1.50"	3
15	1001169078	Plug	1
16	1001165564	Plate	1
17	7690142845	Pin	3
18	1001166644	Channel Spring, 0.38"-16NC	2
19	1001169080	Bolt, 0.38"-16NC X 1.25"	2
20	7330000533	Decal, Jerr-Dan Logo	1

**ROTARY CHAIN RACK INSTALLATION**

**CHAIN BINDER STORAGE INSTALLATION**

ITEM	PART NO.	DESCRIPTION	QTY
<b>Chain Binder Storage W/O Tank</b>			
1	1001165687	Bracket	1
2	1001166644	Channel Spring, 0.38"-16NC	4
3	7950160143	Flatwasher, 0.38" ID	4
4	1001169080	Bolt, 0.38"-16NC x 1.25"	4
5	7790141651	Screw, 0.25" x 1.00"	2
<b>Chain Binder Storage W/Tank</b>			
1	1001165687	Bracket	1
2	7950160143	Flatwasher, 0.38" ID	4
3	1001169080	Bolt, 0.38"-16NC x 1.25"	4
4	7660162604	Locknut, 0.38"-16NC	4
5	7790141651	Screw, 0.25" x 1.00"	2

**CHAIN BINDER STORAGE INSTALLATION****CHAIN BINDER  
RACK W/O TANK****CHAIN BINDER  
RACK W/TANK**