



PARTS MANUAL

ASHLAND 2311E SCRAPER

YEAR MODEL: 20-01

VERSION: 1.01

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Structural Components	Hydraulic Components	Hydraulic Cylinders	Electrical Components	Decal Layout

2311E

SECTION 1.00**BOLT TORQUE SPECIFICATIONS**

Recommended Torque Specifications Unless Otherwise Specified.

STANDARD/PLOW/CARRIAGE BOLTS

BOLT SIZE	THREAD PER INCH	GRADE 2				GRADE 5				GRADE 8			
		DRY		LUBRICATED		DRY		LUBRICATED		DRY		LUBRICATED	
		ft/lbs	Nm	ft/lbs	Nm	ft/lbs	Nm	ft/lbs	Nm	ft/lbs	Nm	ft/lbs	Nm
1/4	20	5.5	7.4	4.1	5.6	9.5	12.9	7.2	9.7	12	16.2	9	12.1
1/4	28	6.3	8.5	4.7	6.4	10.9	14.8	8.2	11.1	14	18.5	10	13.9
5/16	18	11	15.3	8	11.5	20	26.6	15	20.0	25	33.3	18	25.0
5/16	24	13	17.0	9	12.7	22	29.5	16	22.1	27	36.9	20	27.6
3/8	16	20	27.2	15	20.4	35	47.3	26	35.5	44	59.1	33	44.3
3/8	24	23	30.8	17	23.1	40	53.6	30	40.2	49	67.0	37	50.2
7/16	14	32	43.5	24	32.6	56	75.7	42	56.7	70	94.6	52	70.9
7/16	20	36	48.6	27	36.4	62	84.5	47	63.4	78	105.6	58	79.2
1/2	13	49	66.4	37	49.8	85	115.4	64	86.6	106	144.3	80	108.2
1/2	20	55	74.8	41	56.1	96	130.1	72	97.6	120	162.6	90	121.9
5/8	11	97	132.1	73	99.1	170	229.8	127	172.4	212	287.3	159	215.4
5/8	18	110	149.7	83	112.3	192	260.3	144	195.2	240	325.4	180	244.0
3/4	10	173	234.3	130	175.8	301	407.6	225	305.7	376	509.4	282	382.1
3/4	16	193	261.7	145	196.3	336	455.1	252	341.4	420	568.9	315	426.7
7/8	9	243	328.9	182	246.6	485	657.7	364	493.3	606	822.1	455	616.6
7/8	14	267	362.3	200	271.7	534	724.6	401	543.5	668	905.8	501	679.3
1	8	364	493.0	273	369.7	636	862.7	477	647.0	909	1232.4	682	924.3
1	12	398	539.3	298	404.5	696	943.9	522	707.9	995	1348.4	746	1011.3
1 1/4	7	727	985.3	545	739.0	1272	1724.3	954	1293.3	1817	2463.4	1363	1847.5
1 1/4	12	805	1091.1	604	818.3	1408	1909.4	1056	1432.1	2012	2727.7	1509	2045.8
1 1/2	6	1265	1714.4	948	1285.8	2213	3000.3	1660	2250.2	3161	4286.1	2371	3214.6
1 1/2	12	1423	1929.2	1067	1446.9	2490	3376.1	1868	2532.1	3557	4823.0	2668	3617.2
2	4.5	3000	4067.5	2250	3050.6	5250	7118.0	3938	5338.5	7500	10168.6	5625	7626.5
2	8	3324	4506.7	2493	3380.1	3878	5257.9	2909	3943.4	8310	11266.8	6233	8450.1

SOCKET HEAD BOLTS

BOLT SIZE	THREAD PER INCH	GRADE 8			
		DRY		LUBRICATED	
		ft/lbs	Nm	ft/lbs	Nm
1/4	20	14	19.0	10	13.6
1/4	28	16	21.7	12	16.3
5/16	18	29	39.3	22	29.8
5/16	24	32	43.4	24	32.5
3/8	16	51	69.1	28	38.0
3/8	24	58	78.6	43	58.3
7/16	14	81	109.8	61	82.7
7/16	20	91	123.4	68	92.2
1/2	13	124	168.1	93	126.1
1/2	20	140	189.8	105	142.4
5/8	11	238	322.7	179	242.7
5/8	18	270	366.1	202	273.9
3/4	10	423	573.5	317	429.8
3/4	16	472	639.9	354	480.0

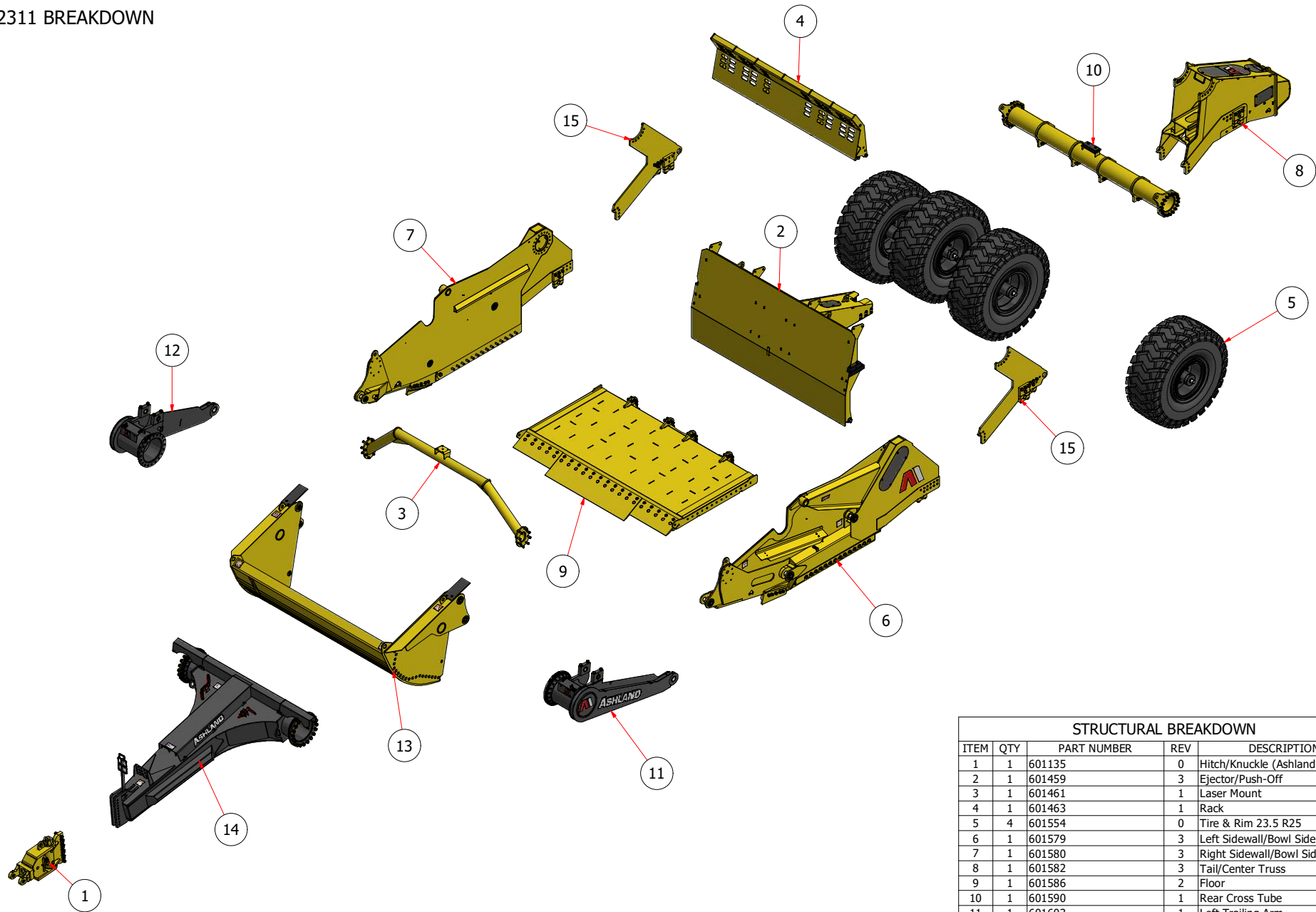
LAG BOLTS

BOLT SIZE	THREAD PER INCH	GRADE 2	
		DRY	
		ft/lbs	Nm
5/8	5	50	67.8

SECTION 1.00

STRUCTURAL

20-01 2311 BREAKDOWN

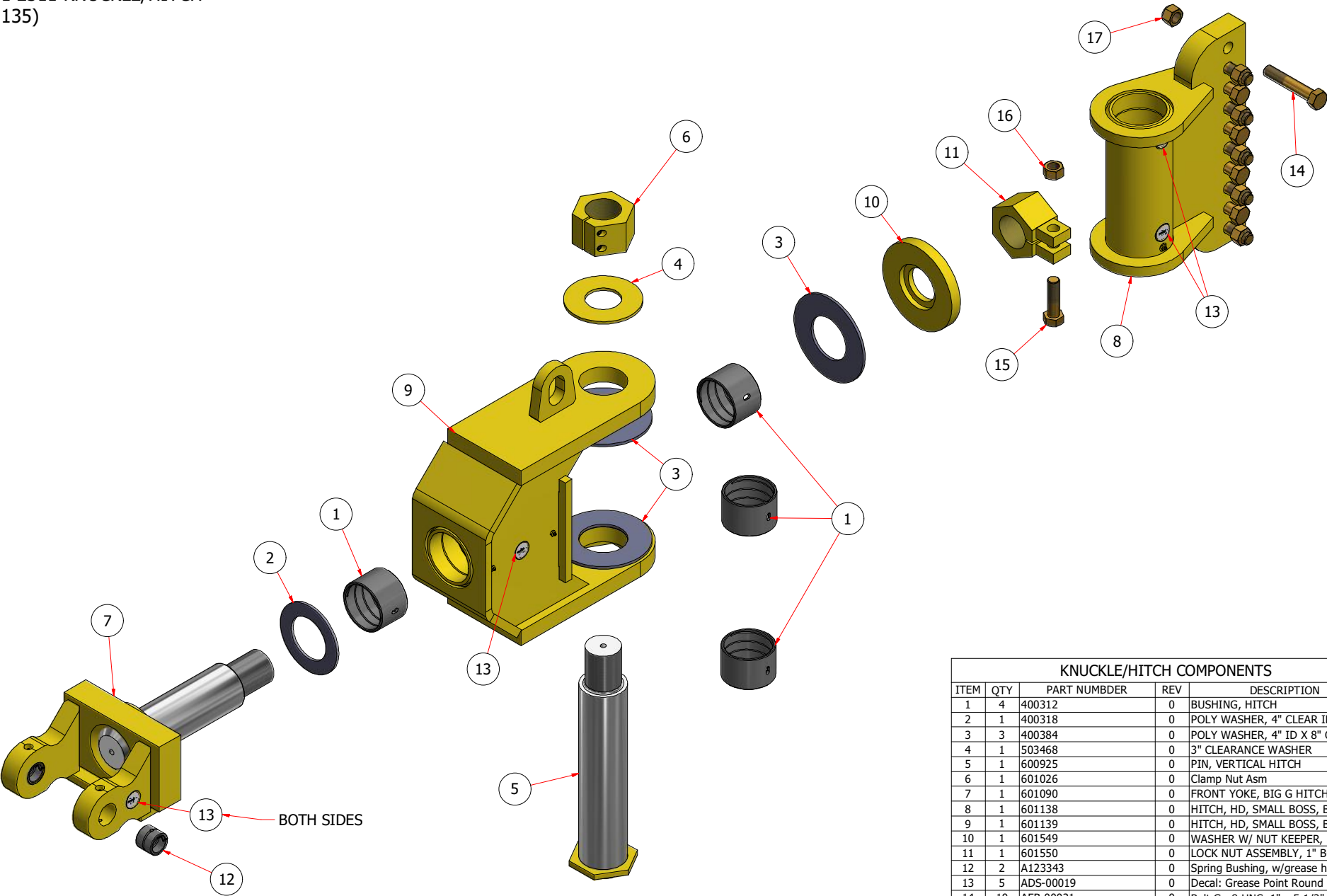


STRUCTURAL BREAKDOWN				
ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	1	601135	0	Hitch/Knuckle (Ashland Yoke)
2	1	601459	3	Ejector/Push-Off
3	1	601461	1	Laser Mount
4	1	601463	1	Rack
5	4	601554	0	Tire & Rim 23.5 R25
6	1	601579	3	Left Sidewall/Bowl Side
7	1	601580	3	Right Sidewall/Bowl Side
8	1	601582	3	Tail/Center Truss
9	1	601586	2	Floor
10	1	601590	1	Rear Cross Tube
11	1	601603	1	Left Trailing Arm
12	1	601604	1	Right Trailing Arm
13	1	703028	3	Gate/Apron
14	1	704036	1	Hitchpole, 2311
15	2	SEE SECTION 1.13	0	Wheel Truss

SECTION 1.01

STRUCTURAL

20-01 2311 KNUCKLE/HITCH
(601135)

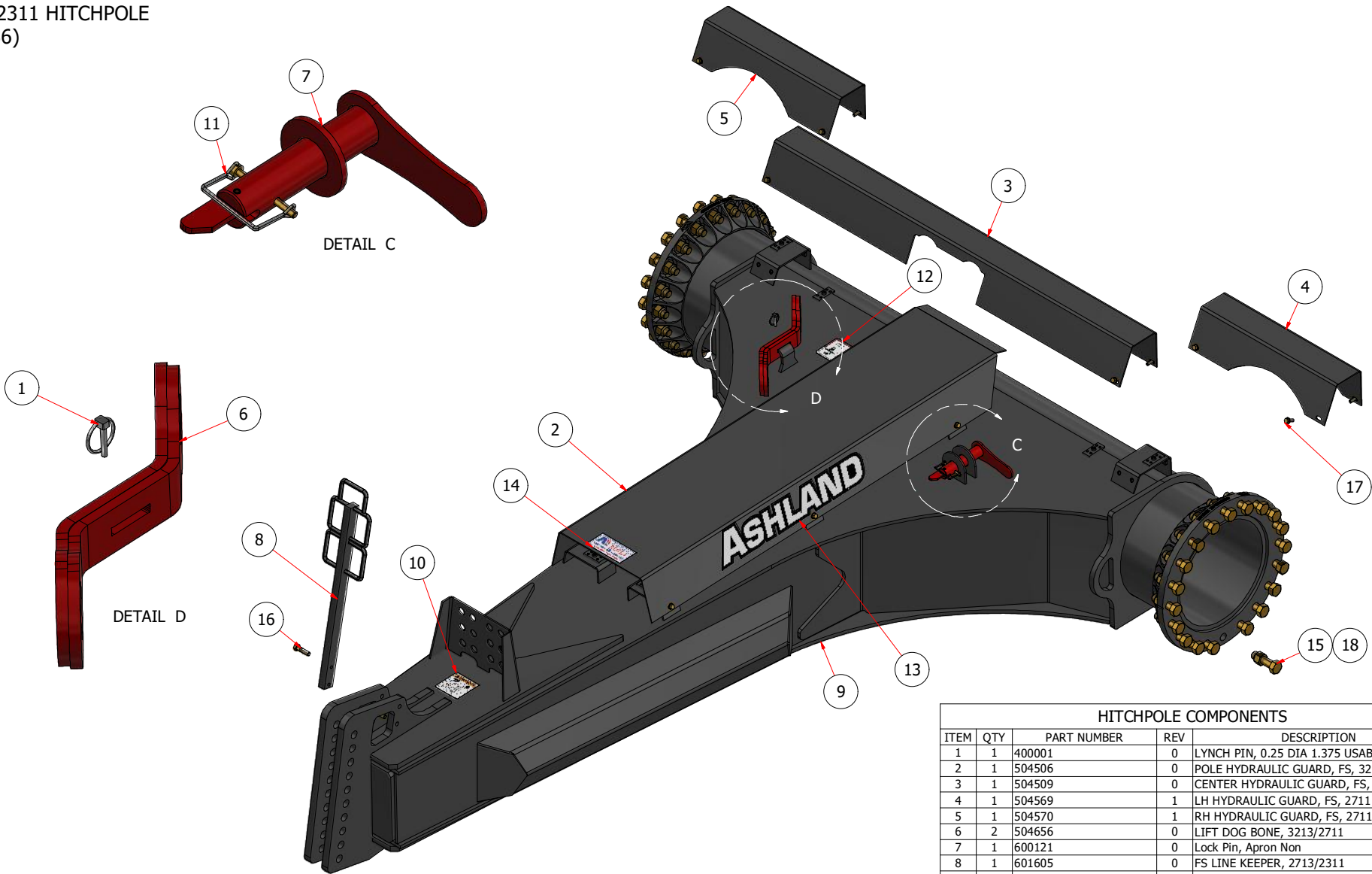


KNUCKLE/HITCH COMPONENTS				
ITEM	QTY	PART NUMBDR	REV	DESCRIPTION
1	4	400312	0	BUSHING, HITCH
2	1	400318	0	POLY WASHER, 4" CLEAR ID
3	3	400384	0	POLY WASHER, 4" ID X 8" OD
4	1	503468	0	3" CLEARANCE WASHER
5	1	600925	0	PIN, VERTICAL HITCH
6	1	601026	0	Clamp Nut Asm
7	1	601090	0	FRONT YOKE, BIG G HITCH, 4"
8	1	601138	0	HITCH, HD, SMALL BOSS, BIG G
9	1	601139	0	HITCH, HD, SMALL BOSS, BIG G
10	1	601549	0	WASHER W/ NUT KEEPER, 3" PIN
11	1	601550	0	LOCK NUT ASSEMBLY, 1" BOLT
12	2	A123343	0	Spring Bushing, w/grease hole
13	5	ADS-00019	0	Decal: Grease Point Round
14	10	AFB-00021	0	Bolt Gr. 8 UNC 1" x 5-1/2"
15	1	AFB-00086	0	Bolt Gr. 8 UNC 1" x 3-1/2"
16	1	AFN-00012	0	Nut Gr. 8 UNC 1"
17	10	AFN-00037	0	Nut Gr. 8 UNC 1" Nylon Lock

SECTION 1.02

STRUCTURAL

20-01 2311 HITCHPOLE
(704036)

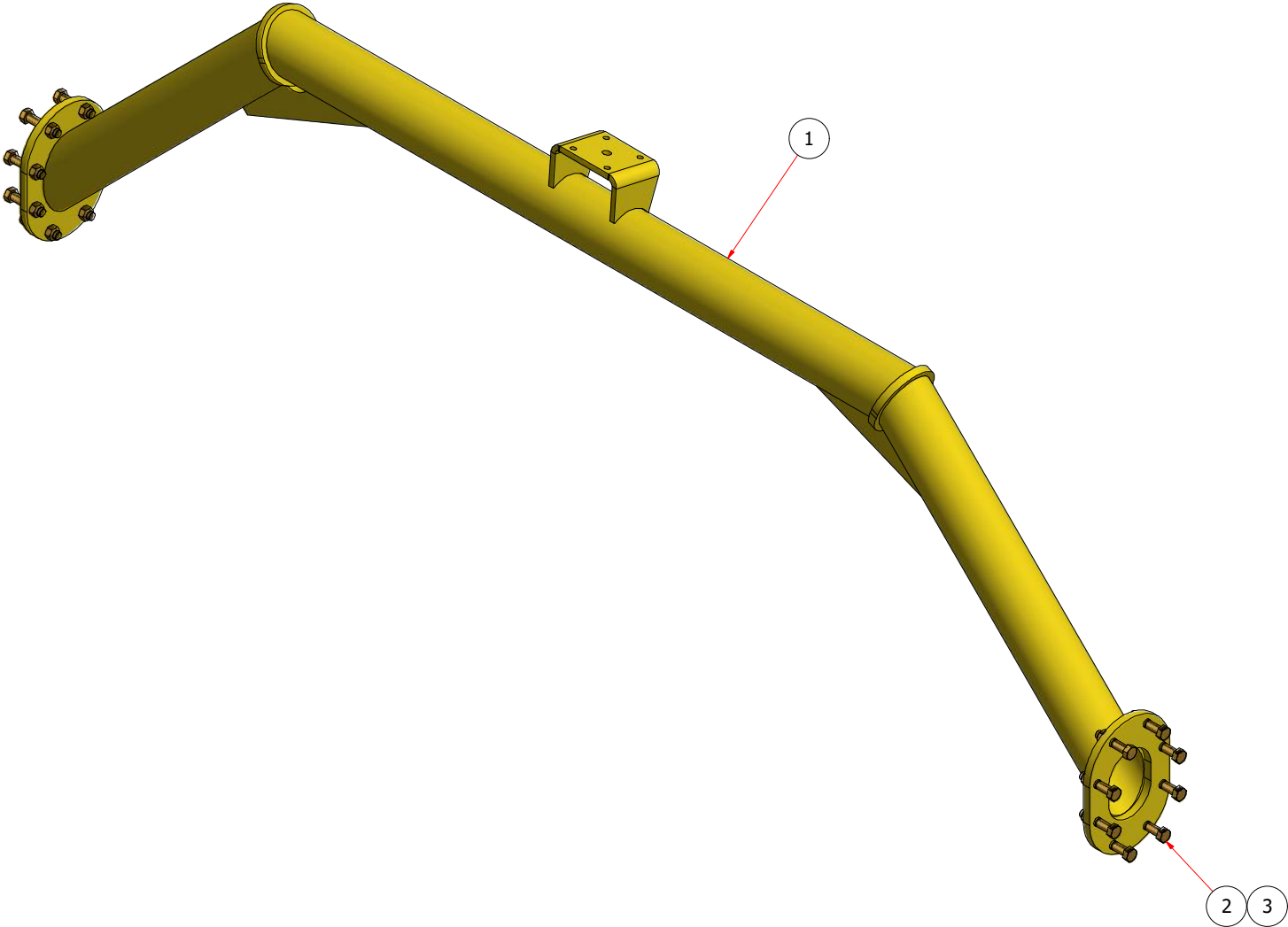


HITCHPOLE COMPONENTS				
ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	1	400001	0	LYNCH PIN, 0.25 DIA 1.375 USABLE
2	1	504506	0	POLE HYDRAULIC GUARD, FS, 3213 / 2711
3	1	504509	0	CENTER HYDRAULIC GUARD, FS, 3213 / 2711
4	1	504569	1	LH HYDRAULIC GUARD, FS, 2711
5	1	504570	1	RH HYDRAULIC GUARD, FS, 2711
6	2	504656	0	LIFT DOG BONE, 3213/2711
7	1	600121	0	Lock Pin, Apron Non
8	1	601605	0	FS LINE KEEPER, 2713/2311
9	1	704036	1	Front Section Weldment, 2311
10	1	750464	0	Decal: High Pressure Hazard
11	1	A125006	0	Square Pin Snapper SQR, 1/4" (2.5" Useable)
12	1	ADS-00047	0	Decal: Transport Lock
13	2	ADS-00061	0	Decal: ASHLAND Small
14	1	ADS-00069	0	Decal: American Built
15	40	AFB-00086	0	Bolt Gr. 8 UNC 1" x 3-1/2"
16	2	AFB-00144	0	Bolt Gr. 8 UNC 1/2" x 2"
17	18	AFB-00170	0	3/8 -16 x 1" Grade 5 Flange Screw
18	40	AFN-00037	0	Nut Gr. 8 UNC 1" Stover Lock

SECTION 1.03

STRUCTURAL

20-01 2311 LASER MOUNT
(601461)

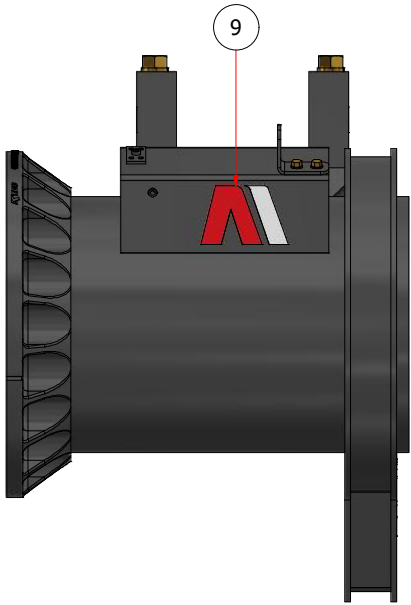
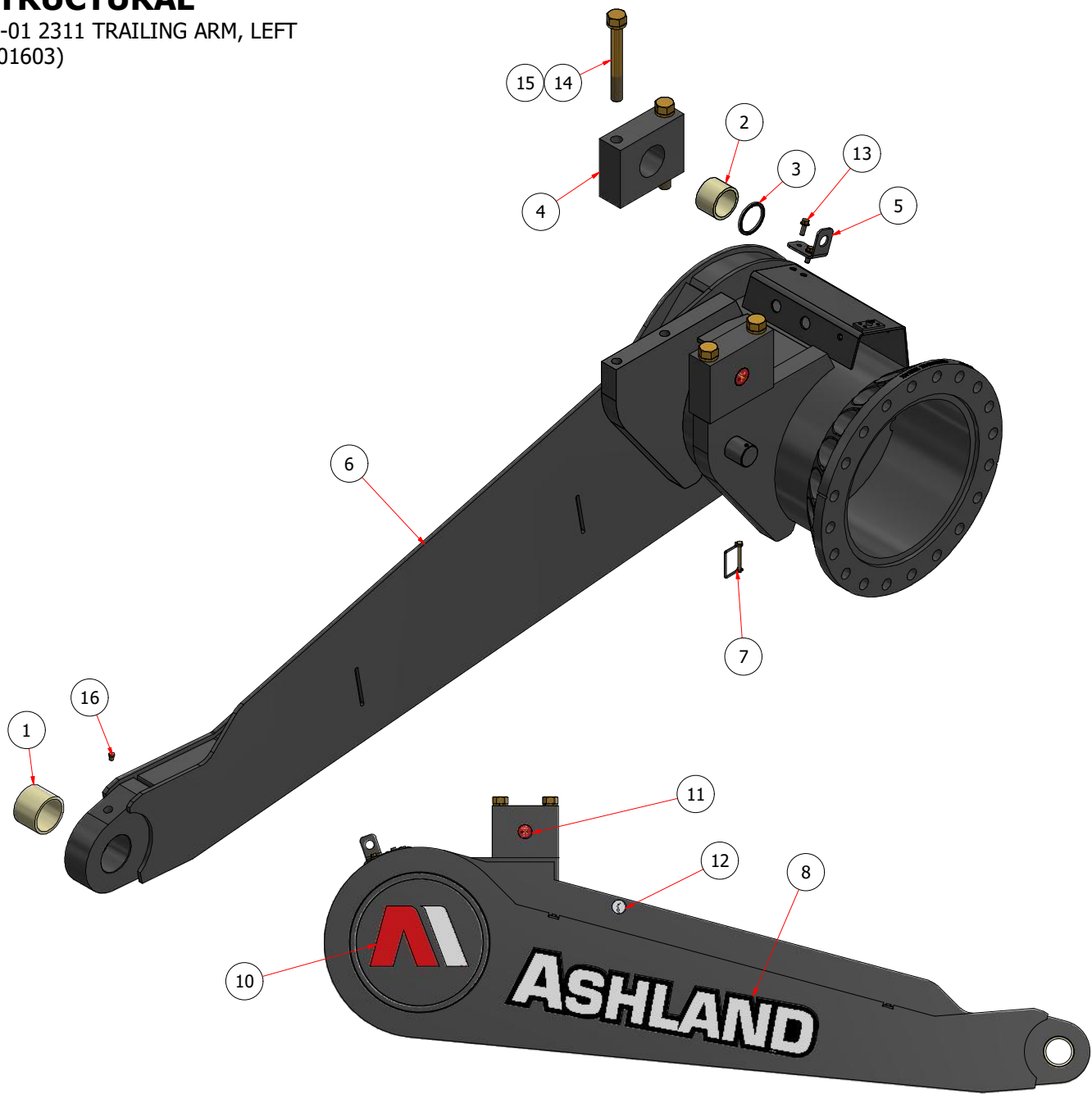


LASER MOUNT COMPONENTS					
ITEM	QTY	PART NUMBER	REV	DESCRIPTION	
1	1	601461	1	FRONT CROSS BAR, 2710	
2	16	AFB-00097	0	Bolt Gr. 8 UNC 3/4" x 3-1/2"	
3	16	AFN-00062	0	Nut Gr. 8 UNC 3/4" Stover Lock	

SECTION 1.04

STRUCTURAL

20-01 2311 TRAILING ARM, LEFT
(601603)

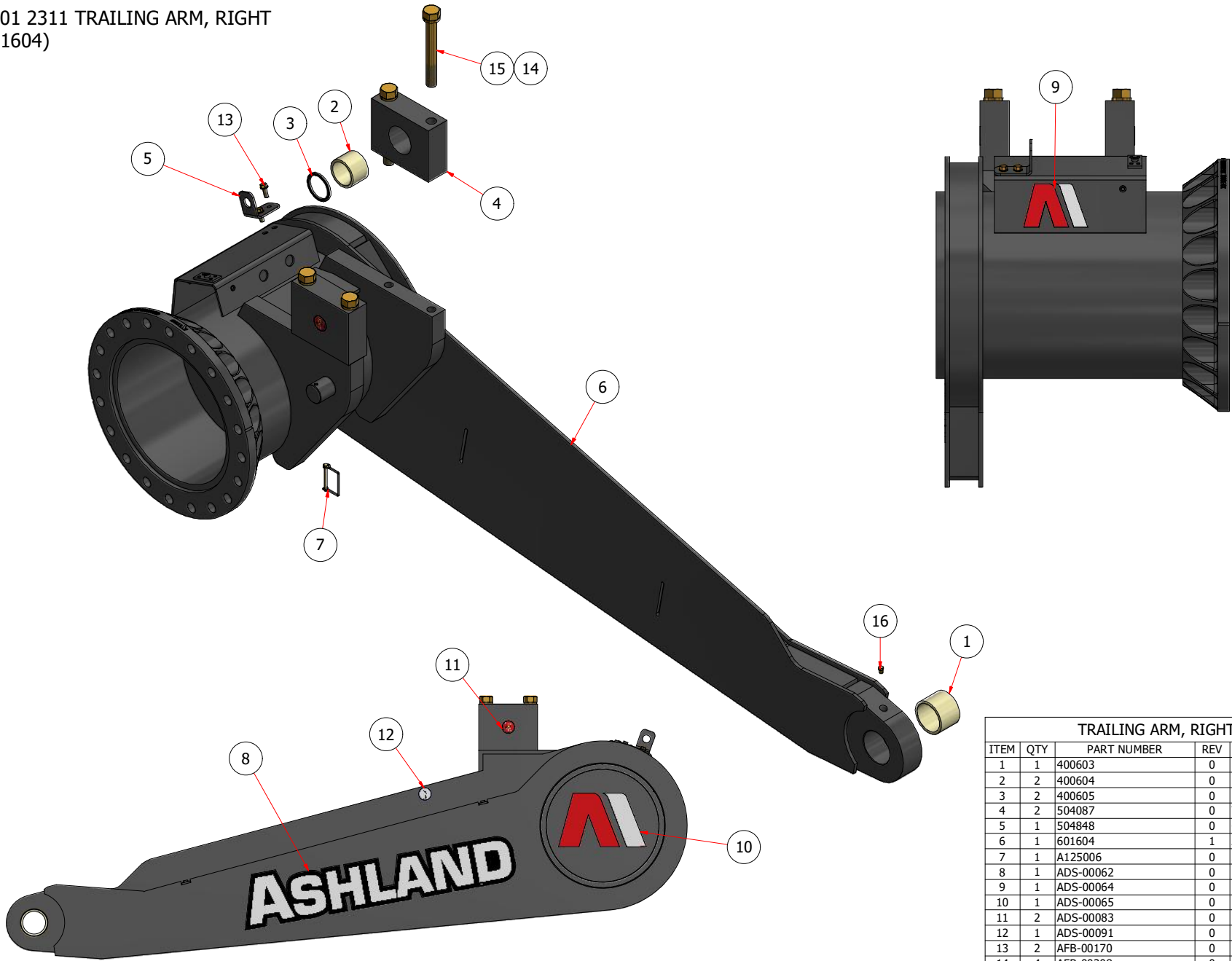


TRAILING ARM, LEFT COMPONENTS				
ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	1	400603	0	POLY BUSHING: 3.5" X 3" X 2.5"
2	2	400604	0	POLY BUSHING: 2.5" X 3" X 2.0625"
3	2	400605	0	BUSHING SEAL 2.5"ID 3"OD
4	2	504087	0	TRUNION MOUNT, FRONT SECTION
5	1	504848	0	CUSHION RIDE BULKHEAD, FS, 3213
6	1	601603	1	ARM LH, FLANGED FS, 2311
7	1	A125006	0	Square Pin Snapper SQR, 1/4"
8	1	ADS-00062	0	Decal: ASHLAND Large
9	1	ADS-00064	0	Decal: AI Logo Small
10	1	ADS-00065	0	Decal: AI Logo Large
11	2	ADS-00083	0	Decal: Greaseless Point Round
12	1	ADS-00091	0	Decal: Lift Point Round
13	2	AFB-00170	0	3/8 -16 x 1" Grade 5 Flange Screw
14	4	AFB-00208	0	Bolt Gr. 8 UNC 1" x 8"
15	4	AFW-00006	0	Washer Gr. 8 - 1" Lock
16	1	AHA-00100	0	1-8 NPT Brass Hex Plug

SECTION 1.04

STRUCTURAL

20-01 2311 TRAILING ARM, RIGHT
(601604)

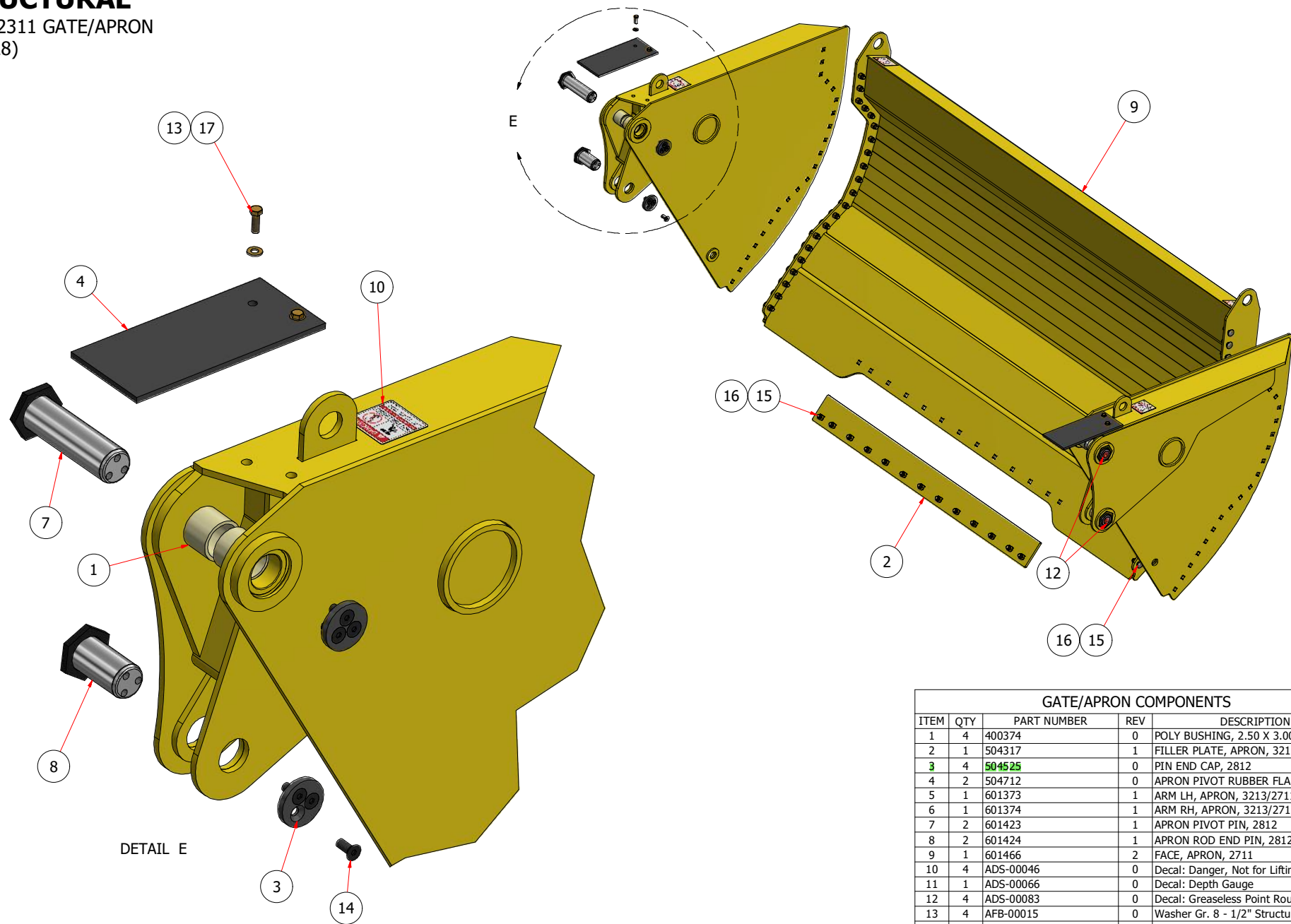


TRAILING ARM, RIGHT COMPONENTS				
ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	1	400603	0	POLY BUSHING: 3.5" X 3" X 2.5"
2	2	400604	0	POLY BUSHING: 2.5" X 3" X 2.0625"
3	2	400605	0	BUSHING SEAL 2.5"ID 3"OD
4	2	504087	0	TRUNION MOUNT, FRONT SECTION
5	1	504848	0	CUSHION RIDE BULKHEAD, FS, 3213
6	1	601604	1	ARM RH, FLANGED FS, 2311
7	1	A125006	0	Square Pin Snapper SQR, 1/4"
8	1	ADS-00062	0	Decal: ASHLAND Large
9	1	ADS-00064	0	Decal: AI Logo Small
10	1	ADS-00065	0	Decal: AI Logo Large
11	2	ADS-00083	0	Decal: Greaseless Point Round
12	1	ADS-00091	0	Decal: Lift Point Round
13	2	AFB-00170	0	3/8 -16 x 1" Grade 5 Flange Screw
14	4	AFB-00208	0	Bolt Gr. 8 UNC 1" x 8"
15	4	AFW-00006	0	Washer Gr. 8 - 1" Lock
16	1	AHA-00100	0	1-8 NPT Brass Hex Plug

SECTION 1.05

STRUCTURAL

20-01 2311 GATE/APRON
(703028)



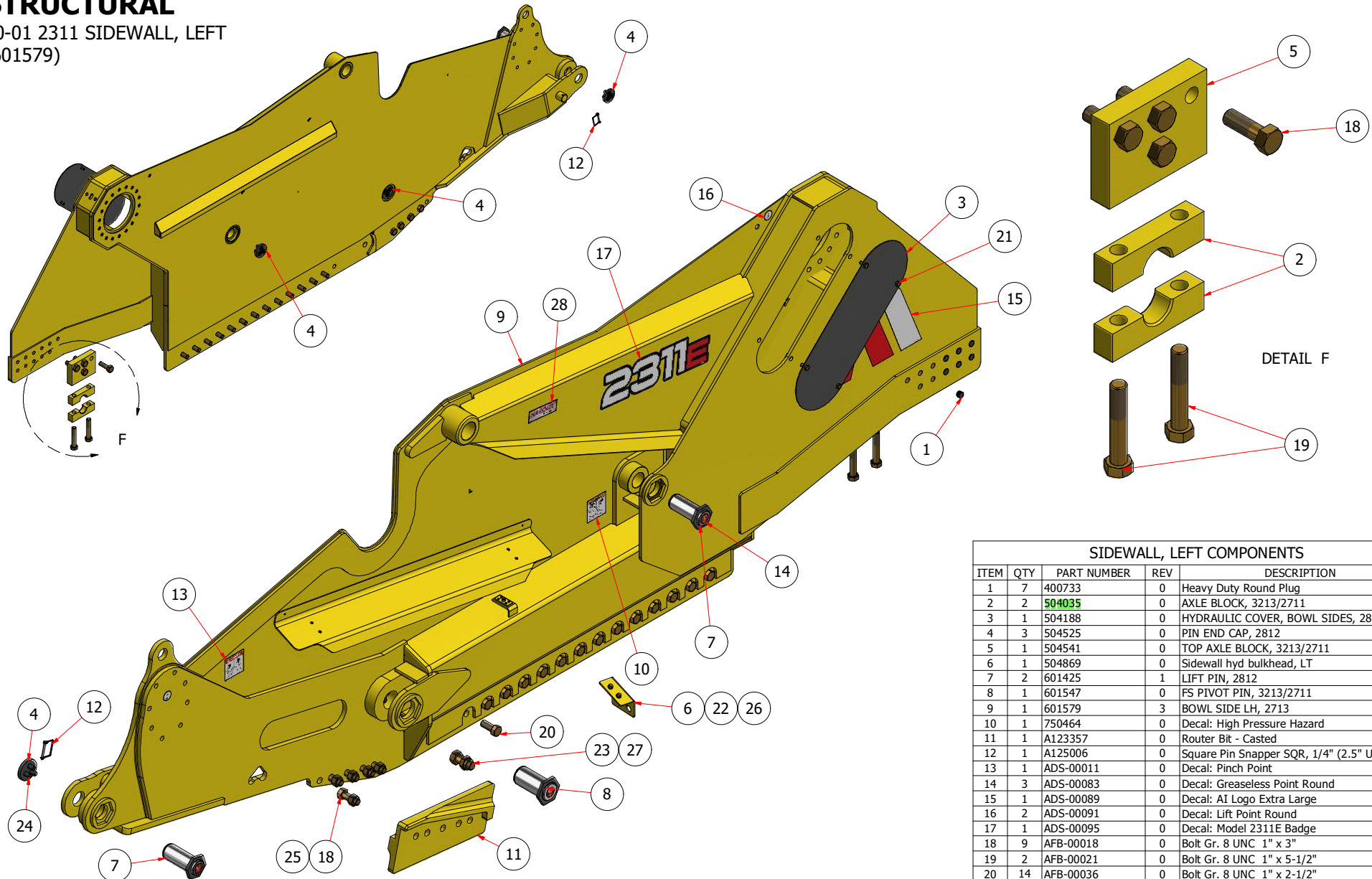
DETAIL E

GATE/APRON COMPONENTS				
ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	4	400374	0	POLY BUSHING, 2.50 X 3.00 X 2.25
2	1	504317	1	FILLER PLATE, APRON, 3213/2711
3	4	504525	0	PIN END CAP, 2812
4	2	504712	0	APRON PIVOT RUBBER FLAP
5	1	601373	1	ARM LH, APRON, 3213/2711
6	1	601374	1	ARM RH, APRON, 3213/2711
7	2	601423	1	APRON PIVOT PIN, 2812
8	2	601424	1	APRON ROD END PIN, 2812
9	1	601466	2	FACE, APRON, 2711
10	4	ADS-00046	0	Decal: Danger, Not for Lifting
11	1	ADS-00066	0	Decal: Depth Gauge
12	4	ADS-00083	0	Decal: Greaseless Point Round
13	4	AFB-00015	0	Washer Gr. 8 - 1/2" Structural
14	12	AFB-00200	0	Grade 8 - 11 UNC 5/8" x 1-1/2" Flat SC
15	55	AFB-00206	0	Bolt Gr. 5 UNC 3/4" x 2-1/4" Carriage
16	55	AFN-00062	0	Nut Gr. 8 UNC 3/4" Stover Lock
17	4	AFW-00009	0	Bolt Gr. 8 UNC 1/2" x 1-1/2"

SECTION 1.06

STRUCTURAL

20-01 2311 SIDEWALL, LEFT
(601579)

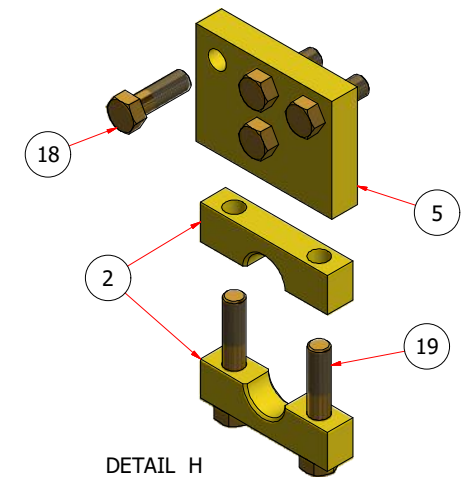
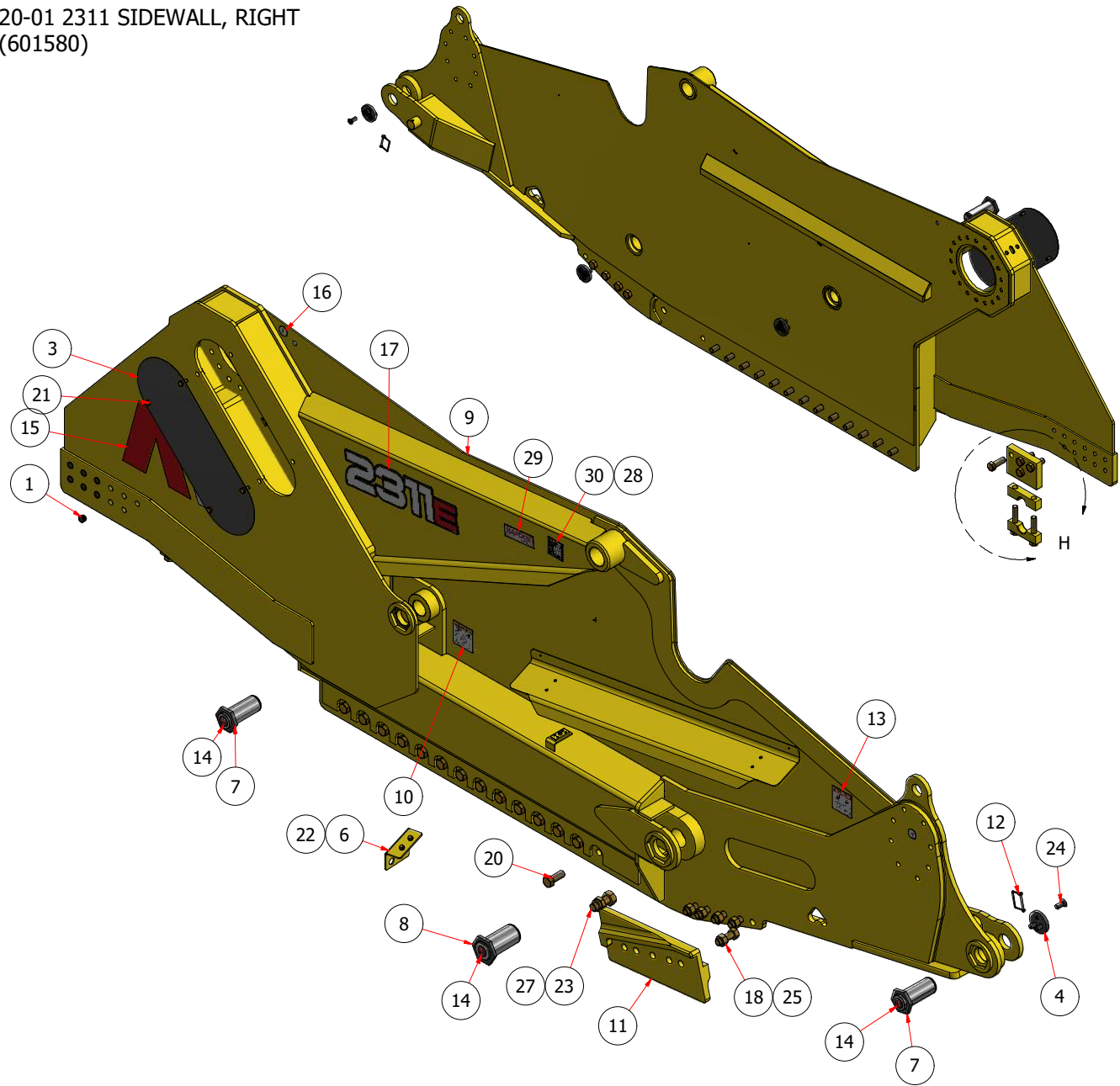


SIDEWALL, LEFT COMPONENTS				
ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	7	400733	0	Heavy Duty Round Plug
2	2	504035	0	AXLE BLOCK, 3213/2711
3	1	504188	0	HYDRAULIC COVER, BOWL SIDES, 2812
4	3	504525	0	PIN END CAP, 2812
5	1	504541	0	TOP AXLE BLOCK, 3213/2711
6	1	504869	0	Sidewall hyd bulkhead, LT
7	2	601425	1	LIFT PIN, 2812
8	1	601547	0	FS PIVOT PIN, 3213/2711
9	1	601579	3	BOWL SIDE LH, 2713
10	1	750464	0	Decal: High Pressure Hazard
11	1	A123357	0	Router Bit - Casted
12	1	A125006	0	Square Pin Snapper SQR, 1/4" (2.5" Useable)
13	1	ADS-00011	0	Decal: Pinch Point
14	3	ADS-00083	0	Decal: Greaseless Point Round
15	1	ADS-00089	0	Decal: AI Logo Extra Large
16	2	ADS-00091	0	Decal: Lift Point Round
17	1	ADS-00095	0	Decal: Model 2311E Badge
18	9	AFB-00018	0	Bolt Gr. 8 UNC 1" x 3"
19	2	AFB-00021	0	Bolt Gr. 8 UNC 1" x 5-1/2"
20	14	AFB-00036	0	Bolt Gr. 8 UNC 1" x 2-1/2"
21	4	AFB-00143	0	Bolt Gr. 8 UNC 1/2" x 1"
22	2	AFB-00170	0	3/8 -16 x 1" Grade 5 Flange Screw
23	1	AFB-00196	0	Bolt Gr. 8 UNC 1-1/4" x 3"
24	9	AFB-00200	0	Grade 8 - 11 UNC 5/8" x 1-1/2" Flat SC
25	5	AFN-00012	0	Nut Gr. 8 UNC 1"
26	2	AFN-00048	0	Nut Gr. 8 UNC 3/8" Stover Lock
27	1	AFN-00070	0	Nut Gr. 8 UNC 1-1/4" Stover Lock
28	1	HARDOX DECAL	0	Decal - Hardox

SECTION 1.06

STRUCTURAL

20-01 2311 SIDEWALL, RIGHT
(601580)

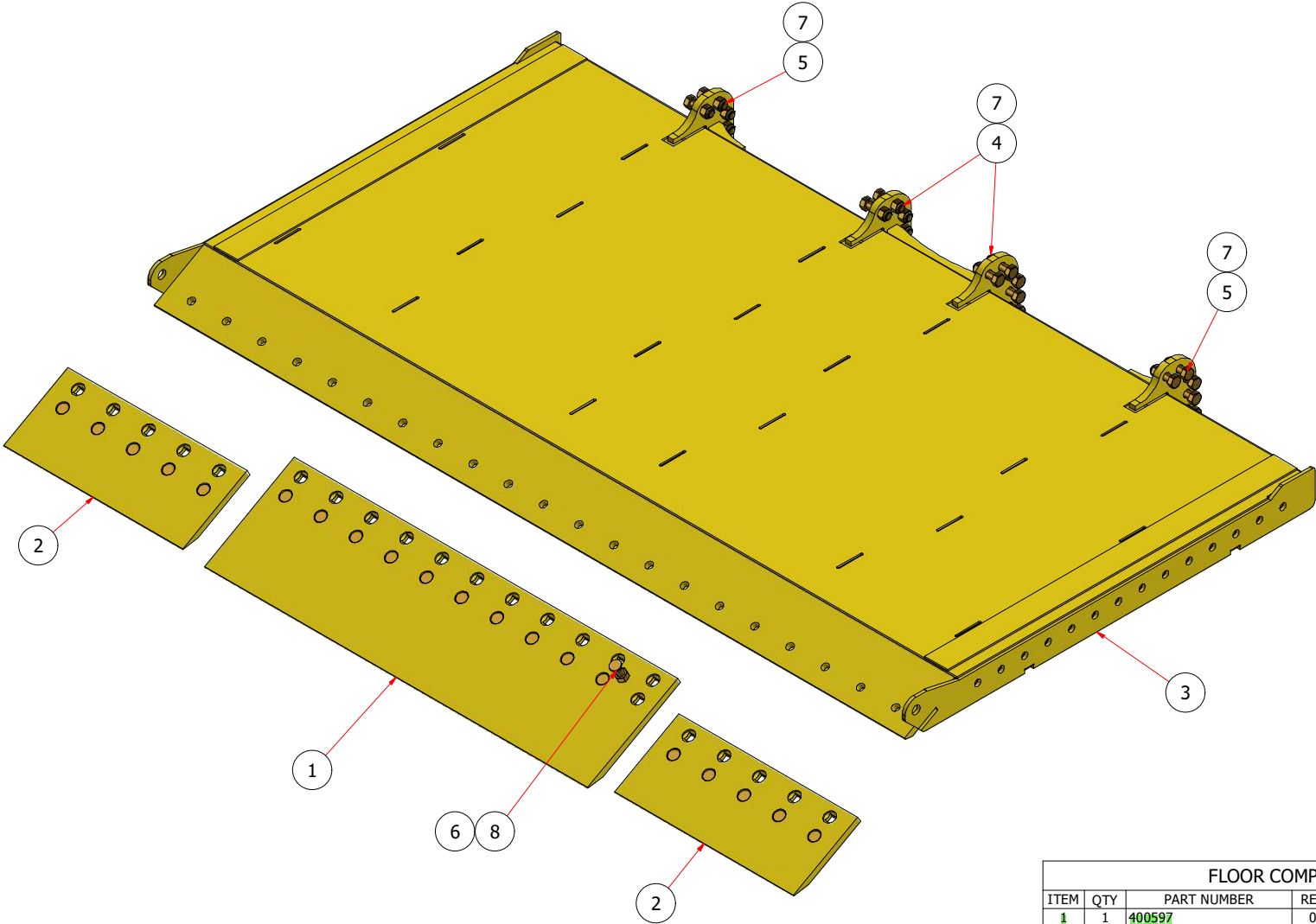


SIDEWALL, RIGHT COMPONENTS				
ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	7	400733	0	Heavy Duty Round Plug
2	2	504035	0	AXLE BLOCK, 3213/2711
3	1	504188	0	HYDRAULIC COVER, BOWL SIDES, 2812
4	3	504525	0	PIN END CAP, 2812
5	1	504541	0	TOP AXLE BLOCK, 3213/2711
6	1	504871	0	Sidewall hyd bulkhead, RT
7	2	601425	1	LIFT PIN, 2812
8	1	601547	0	FS PIVOT PIN, 3213/2711
9	1	601580	3	BOWL SIDE RH, 2713
10	1	750464	0	Decal: High Pressure Hazard
11	1	A123357	0	Router Bit - Casted
12	1	A125006	0	Square Pin Snapper SQR, 1/4" (2.5" Useable)
13	1	ADS-00011	0	Decal: Pinch Point
14	3	ADS-00083	0	Decal: Greaseless Point Round
15	1	ADS-00089	0	Decal: AI Logo Extra Large
16	2	ADS-00091	0	Decal: Lift Point Round
17	1	ADS-00095	0	Decal: Model 2311E Badge
18	9	AFB-00018	0	Bolt Gr. 8 UNC 1" x 3"
19	2	AFB-00021	0	Bolt Gr. 8 UNC 1" x 5-1/2"
20	14	AFB-00036	0	Bolt Gr. 8 UNC 1" x 2-1/2"
21	4	AFB-00143	0	Bolt Gr. 8 UNC 1/2" x 1"
22	2	AFB-00170	0	3/8 -16 x 1" Grade 5 Flange Screw
23	1	AFB-00196	0	Bolt Gr. 8 UNC 1-1/4" x 3"
24	9	AFB-00200	0	Grade 8 - 11 UNC 5/8" x 1-1/2" Flat SC
25	5	AFN-00012	0	Nut Gr. 8 UNC 1"
26	2	AFN-00048	0	Nut Gr. 8 UNC 3/8" Stover Lock
27	1	AFN-00070	0	Nut Gr. 8 UNC 1-1/4" Stover Lock
28	4	AFR-00001	0	#4 x 5/16" U-Drive Screw, Round Head,
29	1	HARDOX DECAL	0	Decal - Hardox
30	1	SERIAL # DECAL	0	Decal - Ashland Serial Plate (K-Tec Mfg.)

SECTION 1.07

STRUCTURAL

20-01 2311 FLOOR
(601586)

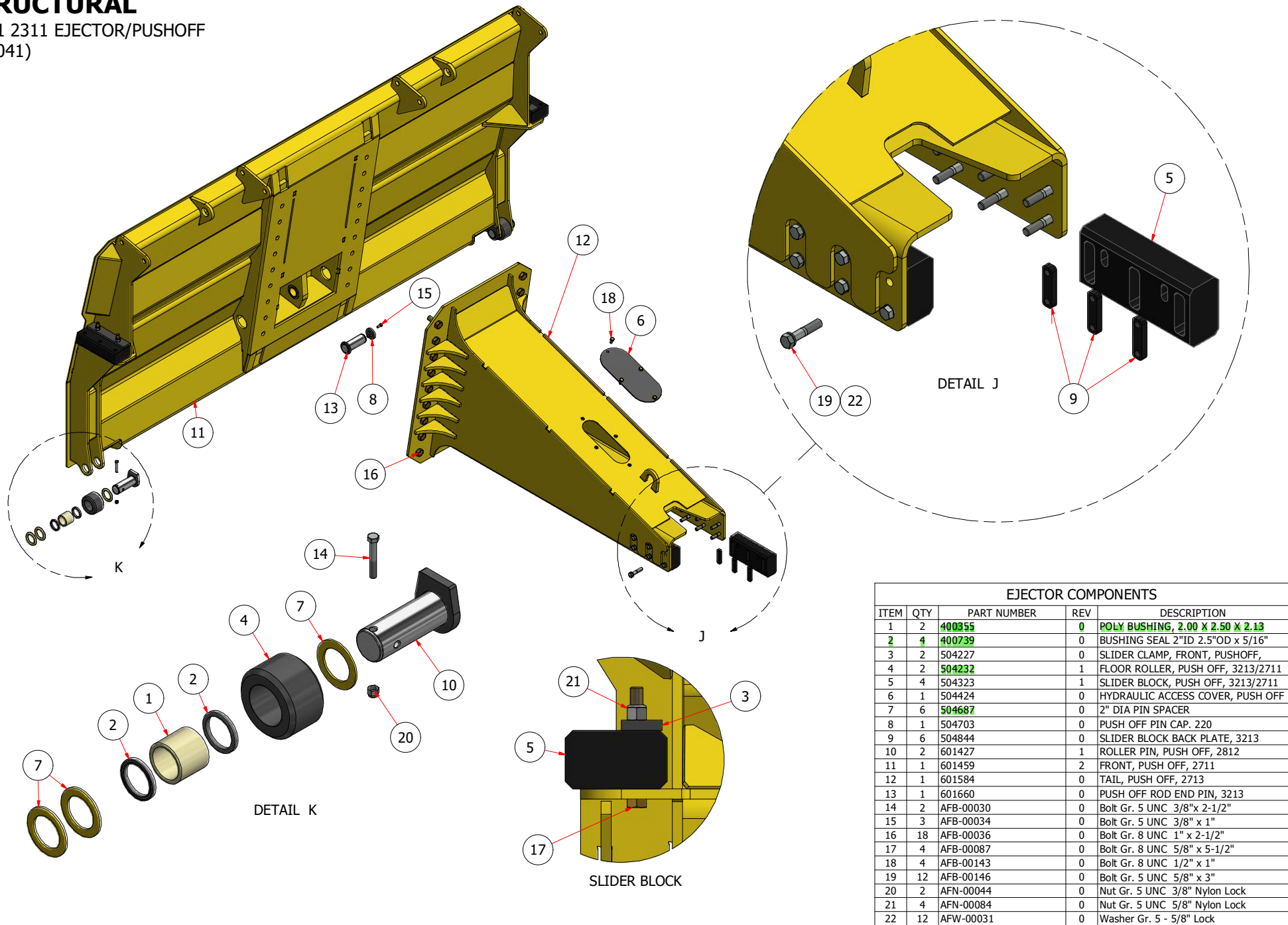


FLOOR COMPONENTS					
ITEM	QTY	PART NUMBER	REV	DESCRIPTION	
1	1	400597	0	CENTER BLADE, 2311/2711/3213	
2	2	400668	0	OUTER BLADE, 2311/2711	
3	1	601586	1	FLOOR, BOWL, 2311	
4	10	AFB-00086	0	Bolt Gr. 8 UNC 1" x 3-1/2"	
5	10	AFB-00211	0	Bolt Gr. 8 UNC 1" x 3-1/4"	
6	21	AFN-00012	0	Nut Gr. 8 UNC 1"	
7	20	AFN-00037	0	Nut Gr. 8 UNC 1" Stover Lock	
8	21	PB1P-NC-100-0275_2.75"	0	Bolt Gr. 8 UNC 1" x 3" Plow	

SECTION 1.08

STRUCTURAL

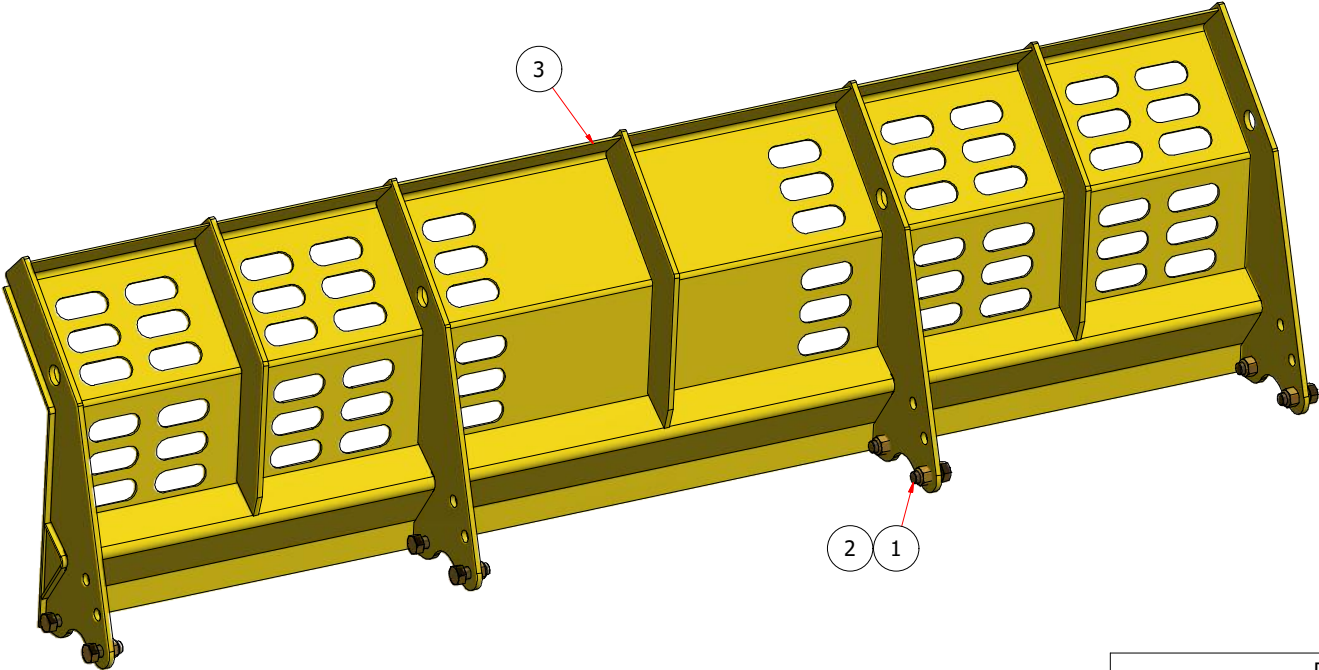
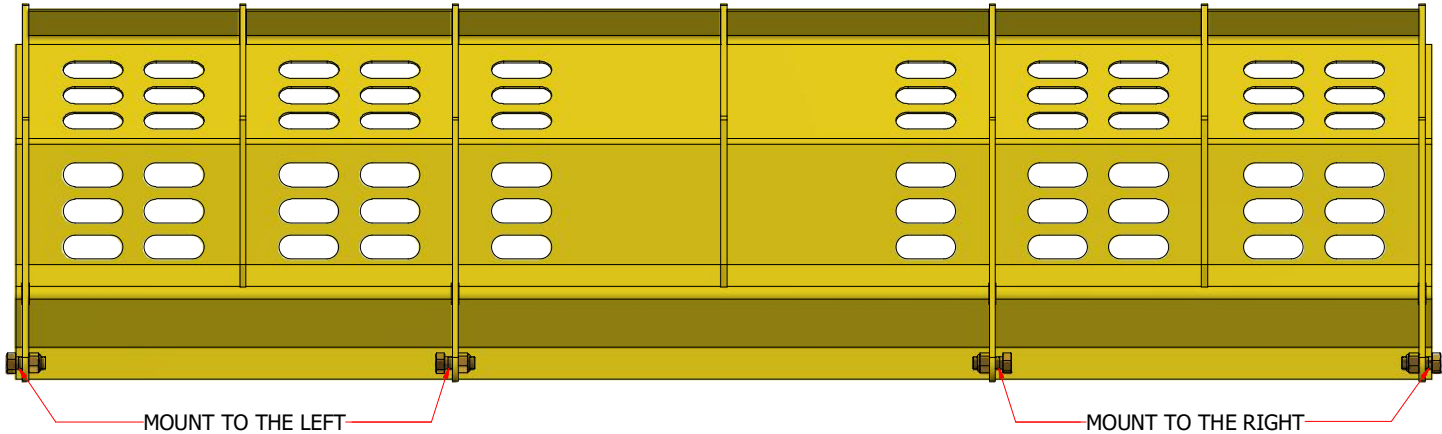
20-01 2311 EJECTOR/PUSHOFF
(702041)



SECTION 1.09

STRUCTURAL

20-01 2311 RACK
(601463)

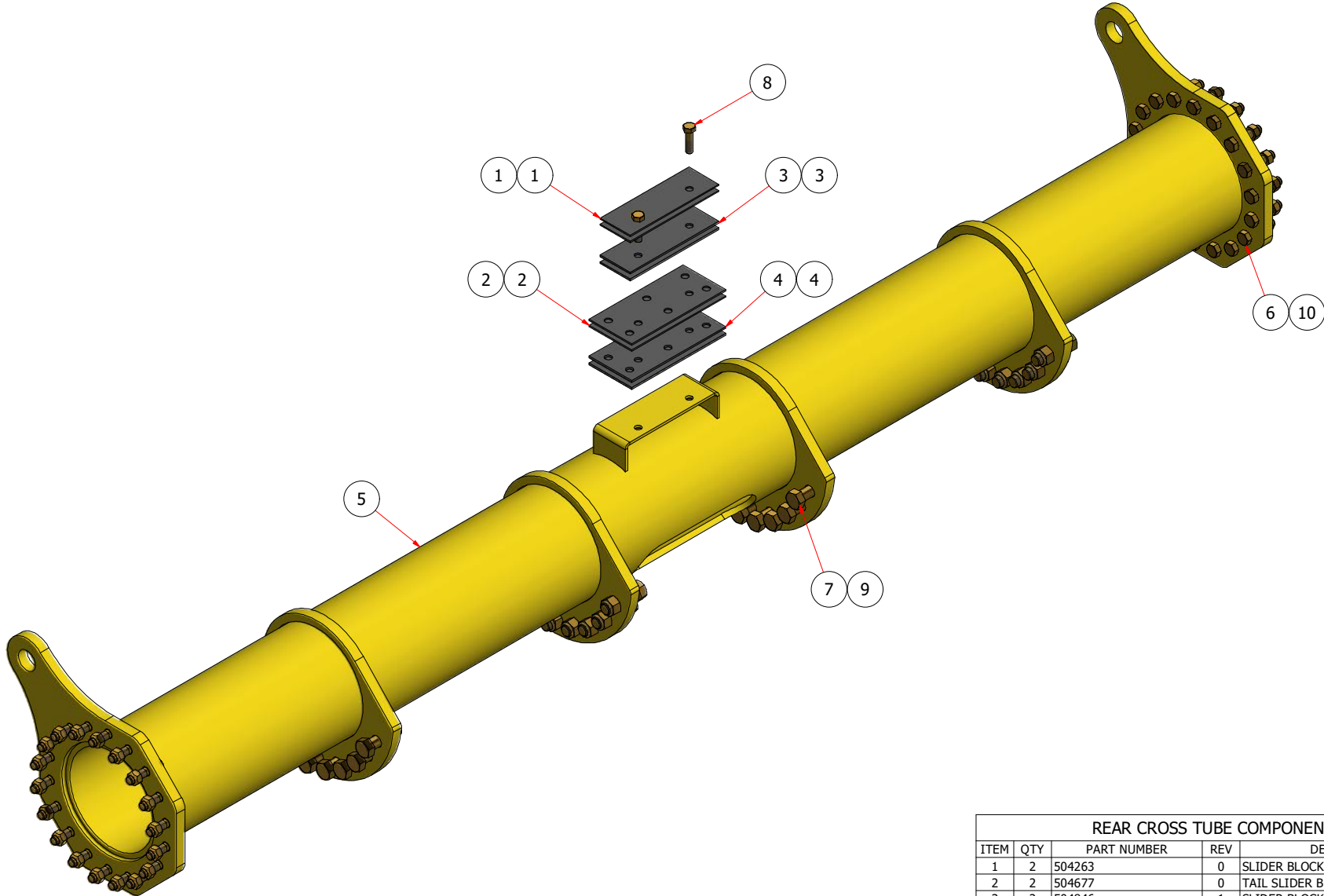


RACK COMPONENTS					
ITEM	QTY	PART NUMBER	REV	DESCRIPTION	
1	8	AFB-00036	0	Bolt Gr. 8 UNC 1" x 2-1/2"	
2	8	AFN-00077	0	Nut Gr. 8 UNC 1" Nylon Lock	
3	1	Ashland 601463	1	HEADACHE RACK, PUSH OFF, 2711	

SECTION 1.10

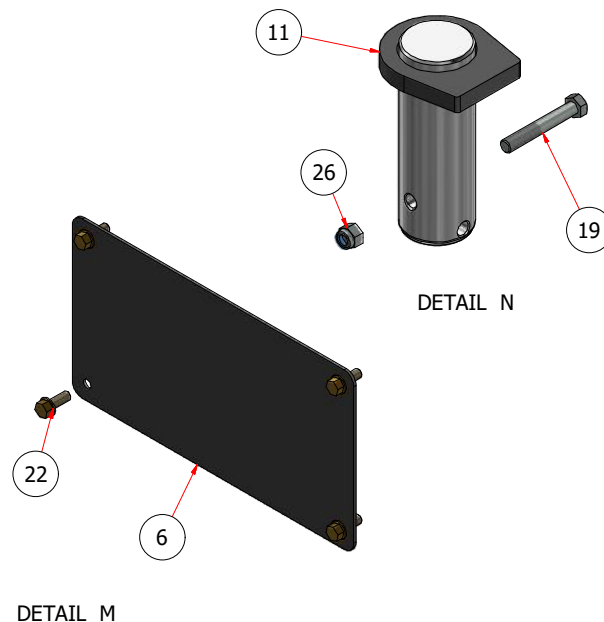
STRUCTURAL

20-01 2311 REAR CROSS TUBE
(601590)



REAR CROSS TUBE COMPONENTS				
ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	2	504263	0	SLIDER BLOCK SHIM, PUSH OFF
2	2	504677	0	TAIL SLIDER BLOCK SIM, PUSH OFF
3	2	504846	1	SLIDER BLOCK SHIM, PUSH OFF
4	2	504847	1	TAIL SLIDER BLOCK SIM, PUSH OFF
5	1	601590	1	REAR CROSS PIPE, BOWL, 2311
6	36	AFB-00064	0	Bolt Gr. 8 UNC 3/4" x 3"
7	24	AFB-00086	0	Bolt Gr. 8 UNC 1" x 3-1/2"
8	2	AFB-00174	0	Bolt Gr. 8 UNC 5/8" x 2-1/4"
9	24	AFN-00037	0	Nut Gr. 8 UNC 1" Stover Lock
10	36	AFN-00062	0	Nut Gr. 8 UNC 3/4" Stover Lock

STRUCTURAL



TAIL/CENTER TRUSS COMPONENTS				
ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	12	400733	0	Heavy Duty Round Plug
2	4	504035	0	AXLE BLOCK, 3213/2711
3	1	504312	0	LARGE TAIL COVER, 2812
4	1	504313	0	SMALL TAIL COVER, 2812
5	2	504541	0	TOP AXLE BLOCK, 3213/2711
6	2	504547	0	SIDE REAR TRUSS GUARD, 3213
7	1	504802	2	CENTER TRUSS BOTTOM DIRT SHIELD
8	1	504848	0	CUSHION RIDE BULKHEAD, FS, 3213
9	1	601381	1	AXLE MOUNT BRIDGE, 3213/2711
10	1	601388	0	PUSHOFF CYLINDER EARS, 3213/2711
11	1	601427	1	ROLLER PIN, PUSH OFF, 2812
12	1	601543	0	BUMPER, 3213/2711
13	1	601546	0	BOLT ON PIPE JANGER, 3213/2711
14	1	601582	2	CENTER TRUSS, REAR FRAME,
15	1	ADS-00065	0	Decal: AI Logo Large
16	1	ADS-00069	0	Decal: American Built
17	14	AFB-00018	0	Bolt Gr. 8 UNC 1" x 3"
18	4	AFB-00021	0	Bolt Gr. 8 UNC 1" x 5-1/2"
19	1	AFB-00030	0	Bolt Gr. 5 UNC 3/8" x 2-1/2"
20	4	AFB-00036	0	Bolt Gr. 8 UNC 1" x 2-1/2"
21	9	AFB-00143	0	Bolt Gr. 8 UNC 1/2" x 1"
22	8	AFB-00170	0	3/8 -16 x 1" Grade 5 Flange Screw
23	10	AFB-00205	0	Bolt Gr. 8 UNC 1" x 1-3/4"
24	2	AFB-00212	0	Bolt Gr. 8 UNC 3/8" x 1-1/4"
25	2	AFN-00044	0	Nut Gr. 8 UNC 3/8" Stover Lock
26	1	AFN-00044	0	Nut Gr. 5 UNC 3/8" Nylon Lock
27	6	AFN-00077	0	Nut Gr. 8 UNC 1" Nylon Lock

SECTION 1.12

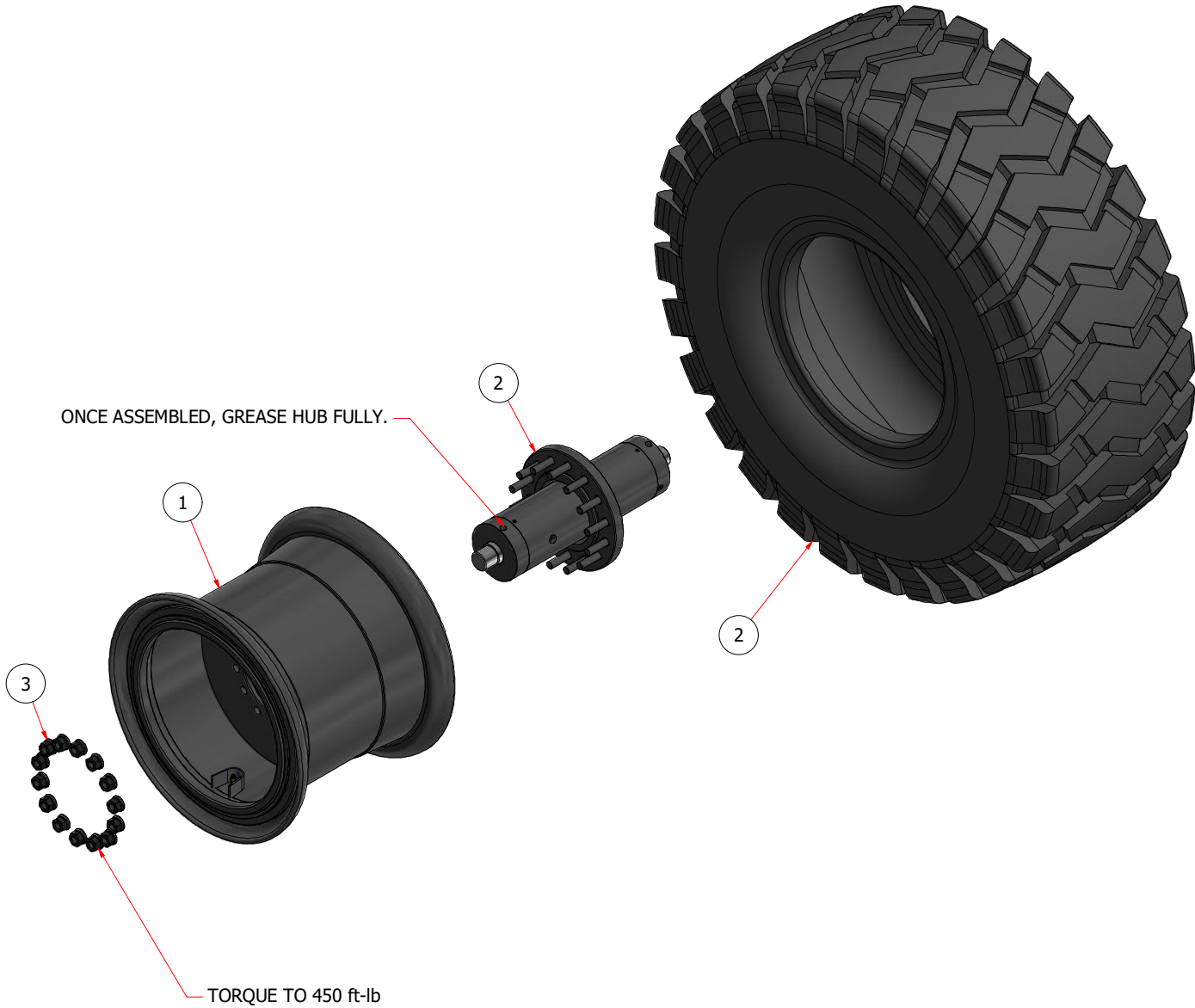
STRUCTURAL

20-01 2311 WHEEL ASSEMBLY
(601554)



23.5 R25, 2 STAR TIRE & RIM PACKAGE

QTY	PART NUMBER	REV	DESCRIPTION
1	601452	0	Rim 19.50 x 25.00 / 2.50
1	ATI-00033	0	Tire 23.5 x 25

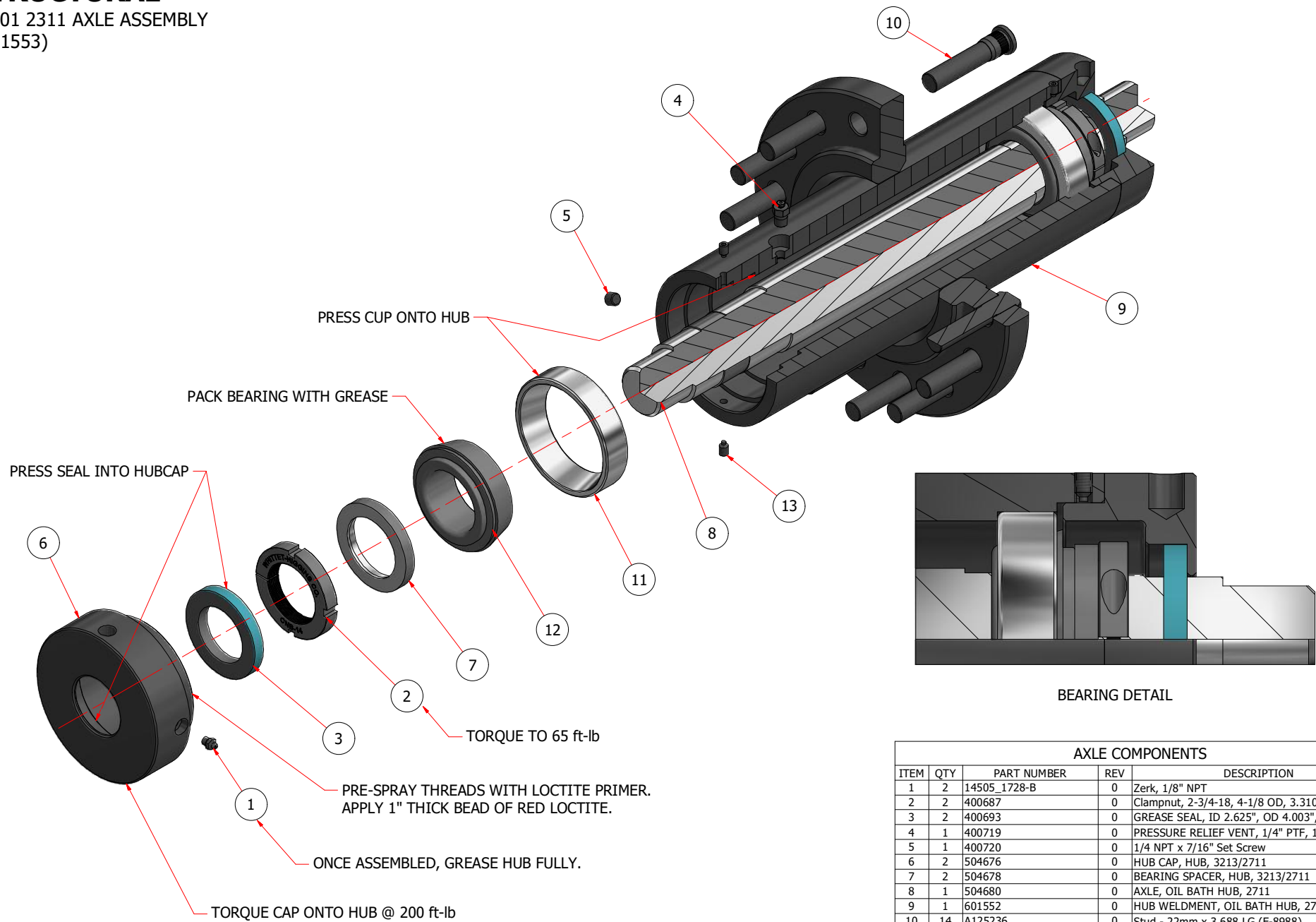


WHEEL ASSEMBLY COMPONENTS				
ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	1	601452	0	Rim 19.50 x 25.00 / 2.50
2	1	601553	0	OIL BATH HUB ASSEMBLY. 2711
3	14	A125229	0	Flange Nut M22 Gr 8 TP 1.5
2	1	ATI-00033	0	Tire 23.5 x 25

SECTION 1.12

STRUCTURAL

20-01 2311 AXLE ASSEMBLY
(601553)

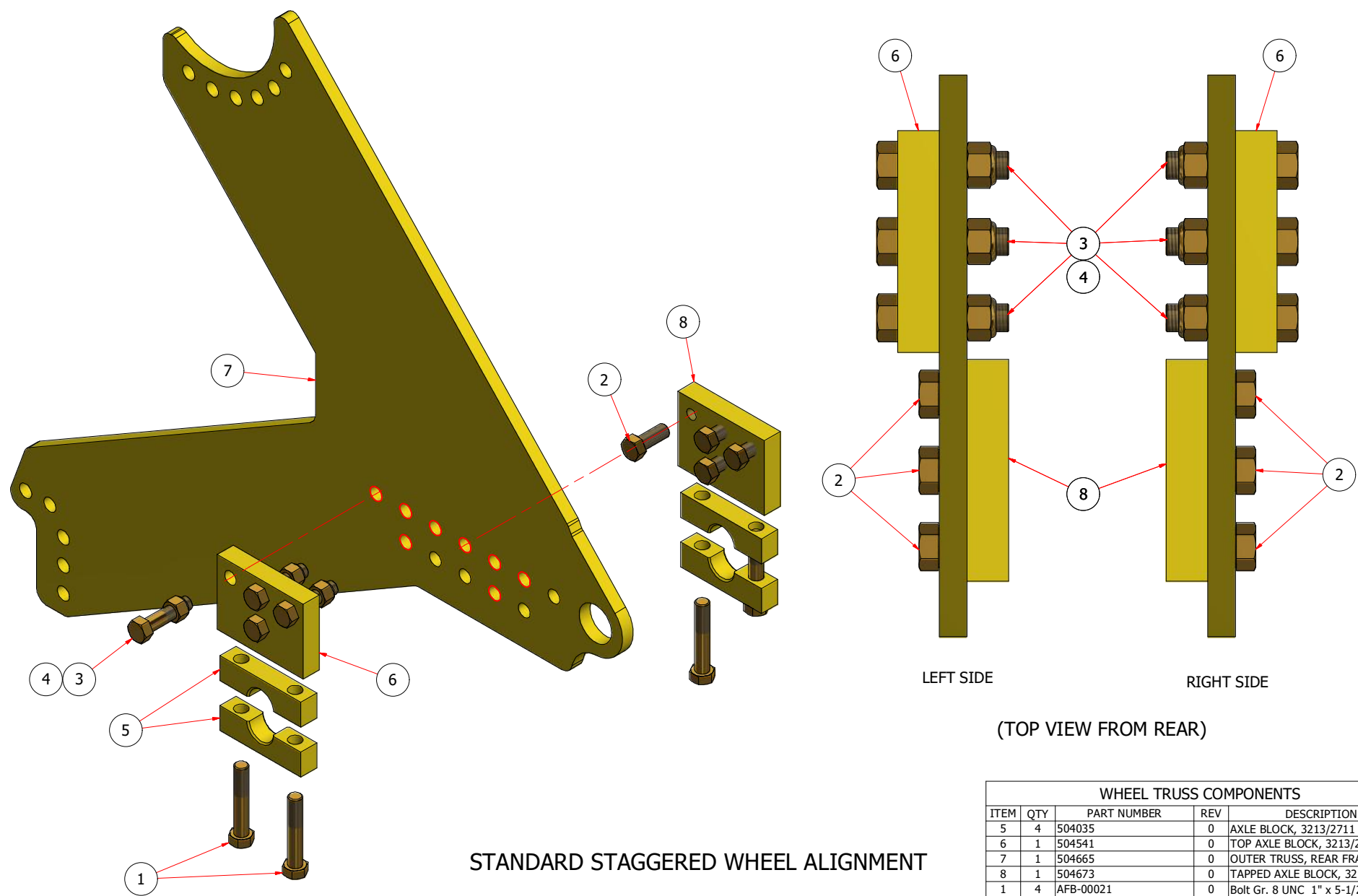


AXLE COMPONENTS					
ITEM	QTY	PART NUMBER	REV	DESCRIPTION	
1	2	14505_1728-B	0	Zerk, 1/8" NPT	
2	2	400687	0	Clampnut, 2-3/4-18, 4-1/8 OD, 3.3100 FD, 0.6350	
3	2	400693	0	GREASE SEAL, ID 2.625", OD 4.003", W 0.375"	
4	1	400719	0	PRESSURE RELIEF VENT, 1/4" PTF, 15 PSI	
5	1	400720	0	1/4 NPT x 7/16" Set Screw	
6	2	504676	0	HUB CAP, HUB, 3213/2711	
7	2	504678	0	BEARING SPACER, HUB, 3213/2711	
8	1	504680	0	AXLE, OIL BATH HUB, 2711	
9	1	601552	0	HUB WELDMENT, OIL BATH HUB, 2711	
10	14	A125236	0	Stud - 22mm x 3.688 LG (E-8988)	
11	2	A14014	0	Tapered Roller Bearing Cup 5-3/8" OD x 1-1/4"	
12	2	A14015	0	Tapered Roller Bearing, 2-13/16" ID x 1-3/4"	
13	4	AFB-00209	0	3/8"-16 X 1/2" SSS Nylon Tip Point	

SECTION 1.13

STRUCTURAL

20-01 2311 WHEEL TRUSS



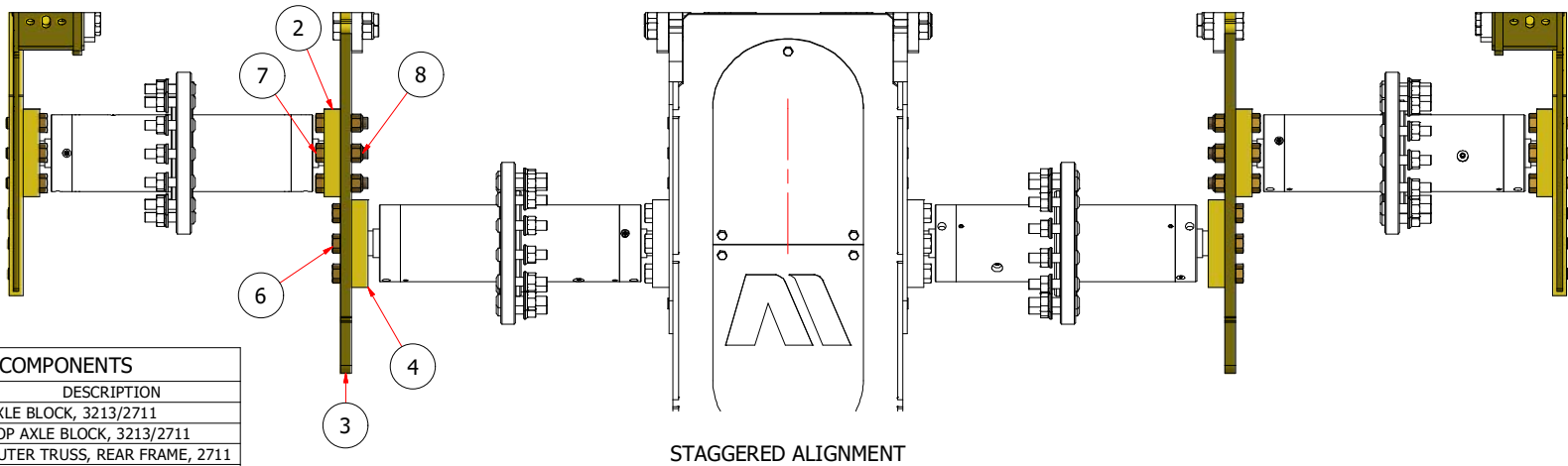
STANDARD STAGGERED WHEEL ALIGNMENT

WHEEL TRUSS COMPONENTS				
ITEM	QTY	PART NUMBER	REV	DESCRIPTION
5	4	504035	0	AXLE BLOCK, 3213/2711
6	1	504541	0	TOP AXLE BLOCK, 3213/2711
7	1	504665	0	OUTER TRUSS, REAR FRAME, 2711
8	1	504673	0	TAPPED AXLE BLOCK, 3213/2711
1	4	AFB-00021	0	Bolt Gr. 8 UNC 1" x 5-1/2"
2	4	AFB-00036	0	Bolt Gr. 8 UNC 1" x 2-1/2"
3	4	AFB-00187	0	Bolt Gr. 8 UNC 1" x 4"
4	4	AFN-00077	0	Nut Gr. 8 UNC 1" Nylon Lock

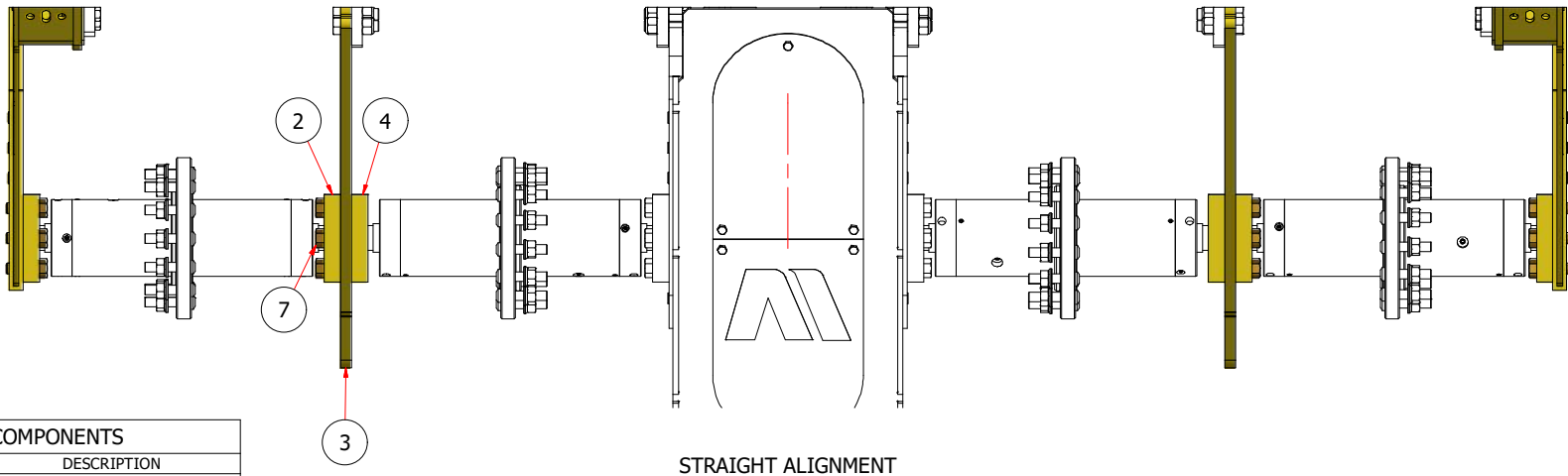
SECTION 1.13

STRUCTURAL

20-01 2311 WHEEL ALIGNMENT
(NOTE DIRECTION OF HUBS AND BLOCKS)



STAGGERED ALIGNMENT COMPONENTS				
ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	16	504035	0	AXLE BLOCK, 3213/2711
2	4	504541	0	TOP AXLE BLOCK, 3213/2711
3	4	504665	0	OUTER TRUSS, REAR FRAME, 2711
4	4	504673	0	TAPPED AXLE BLOCK, 3213/2711
5	16	AFB-00021	0	Bolt Gr. 8 UNC 1" x 5-1/2"
6	16	AFB-00036	0	Bolt Gr. 8 UNC 1" x 2-1/2"
7	16	AFB-00187	0	Bolt Gr. 8 UNC 1" x 4"
8	16	AFN-00077	0	Nut Gr. 8 UNC 1" Nylon Lock



STRAIGHT ALIGNMENT COMPONENTS				
ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	16	504035	0	AXLE BLOCK, 3213/2711
2	4	504541	0	TOP AXLE BLOCK, 3213/2711
3	4	504665	0	OUTER TRUSS, REAR FRAME, 2711
4	4	504673	0	TAPPED AXLE BLOCK, 3213/2711
5	16	AFB-00021	0	Bolt Gr. 8 UNC 1" x 5-1/2"
7	16	AFB-00187	0	Bolt Gr. 8 UNC 1" x 4"

PART LISTS ONLY SHOWS WHEEL TRUSS COMPONENTS

SECTION 2.00

HYDRAULICS

HYDRAULIC FITTINGS TORQUE SPECIFICATIONS

JIC Flare Torque Values (Lubricated)

SAE No.	Tube Size O.D. in.	Nut Size Across Flats in.	Torque Value N.m	Torque Value lb.-ft.	F.F.F.T Flats
-04	1/4"	9/16"	15-16	11-12	2
-06	3/8"	11/16"	24-27	18-20	1 1/2
-08	1/2"	7/8"	41-53	36-39	1 1/2
-12	3/4"	1-1/4"	107-119	79-88	1 1/4
-16	1"	1-1/2"	146-153	108-113	1
-20	1 1/4"	1-7/8"	172-180	127-133	1
-24	1 1/2"	2-1/8"	214-226	158-167	1

O-Ring Boss Torque Values (Lubricated)

SAE No.	Tube Size O.D. in.	Nut Size Across Flats in.	Torque Value N.m	Torque Value lb.-ft.	F.F.F.T Flats
-04	1/4"	9/16"	18-20	13-15	1
-06	3/8"	11/16"	27-34	22-25	1
-08	1/2"	7/8"	54-58	40-43	1
-12	3/4"	1-1/4"	92-102	68-75	1
-16	1"	1-1/2"	152-169	112-123	3/4
-20	1 1/4"	1-7/8"	198-226	146-200	3/4
-24	1 1/2"	2-1/8"	209-291	154-215	1/2

O-Ring Face Seal Torque Values (Lubricated)

SAE No.	Tube Size O.D. in.	Nut Size Across Flats in.	Torque Value N.m	Torque Value lb.-ft.	F.F.F.T Flats
-04	1/4"	9/16"	14-16	10-12	1
-06	3/8"	11/16"	24-27	18-20	1
-08	1/2"	7/8"	43-47	32-35	1
-12	3/4"	1-1/4"	88-95	65-70	1
-16	1"	1-1/2"	125-136	92-100	3/4
-20	1 1/4"	1-7/8"	170-190	125-140	3/4
-24	1 1/2"	2-1/8"	203-224	150-165	3/4

Pipe Thread Torque Values

SAE No.	Tube Size O.D. in.	Nut Size Across Flats in.	Torque Value N.m	Torque Value lb.-ft.	F.F.F.T Flats
-04	1/4"	9/16"	34	25	3/4-1 3/4
-06	3/8"	11/16"	54	40	3/4-1 3/4
-08	1/2"	7/8"	73	54	1/2-1 1/2
-12	3/4"	1-1/4"	106	78	1/2-1 1/2
-16	1"	1-1/2"	152	112	1/2-1 1/2
-20	1 1/4"	1-7/8"	209	154	1/2-1 1/2
-24	1 1/2"	2-1/8"	286	211	1/2-1 1/2

Flats From Finger Tight (F.F.F.T)

is a **Turn Method** that counts the number of hex flats past the finger tightened position.

Assembly Steps With a Visual Check

- 1) With the tube flared, make sure the tubing and threads are clean.
- 2) Lubricate the threads with 10W hydraulic oil.
- 3) Hand tighten the nut/sleeve (approx. 30 lb-in.).
- 4) Make alignment marks on the nut and fitting.
- 5) Proceed to tighten to F.F.F.T. or lb-ft. values.
- 6) When fully tightened make a 2nd set of alignment marks at the fully tightened position.

O-Ring Boss Assembly

- 1) **Inspect the components** and make sure the port, O-ring, sealing surfaces, and threads are clean, and free of damage.
- 2) **Install an O-ring** if needed. Take special care not to cut it on the threads. We install our O-rings with special mandrels, or cones.
- 3) **Lubricate** the threads and O-ring with 10W hydraulic oil.
- 4) For an adjustable ORB, completely **back off the locknut/washer**.
- 5) **Hand tighten** the fitting until it contacts the port surface.
- 6) Proceed to **tighten** the proper specified **torque value**.

As the Temperature Rises...

- + 212F = Water boils off.
- + 600F = Flux starts to bubble.
- + 800F = Flux becomes translucent.
- + 1100F = Flux melts and becomes clear and active, looks like water.
- + 1125F = Silver braze ring melts.
- + 1140F = Silver flows evenly throughout the joint allowing the braze sleeve to drop and be fully seated.
At this point the metal will take on a dark reddish look.

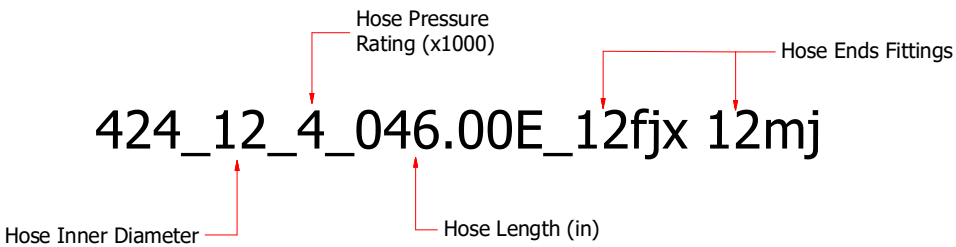
SECTION 2.00

HYDRAULICS

HYDRAULICS CODING BREAKDOWN

- mj - Male JIC
- fj - Female JIC
- mp - Male Pipe
- fp - Female Pipe
- mb - Make ORB
- fb - Female ORB
- x - Swivel
- mf - Male Flat Face
- ff - Female Flat Face

- 6 - 3/8"
- 8 - 1/2"
- 12 - 3/4"
- 16 - 1"

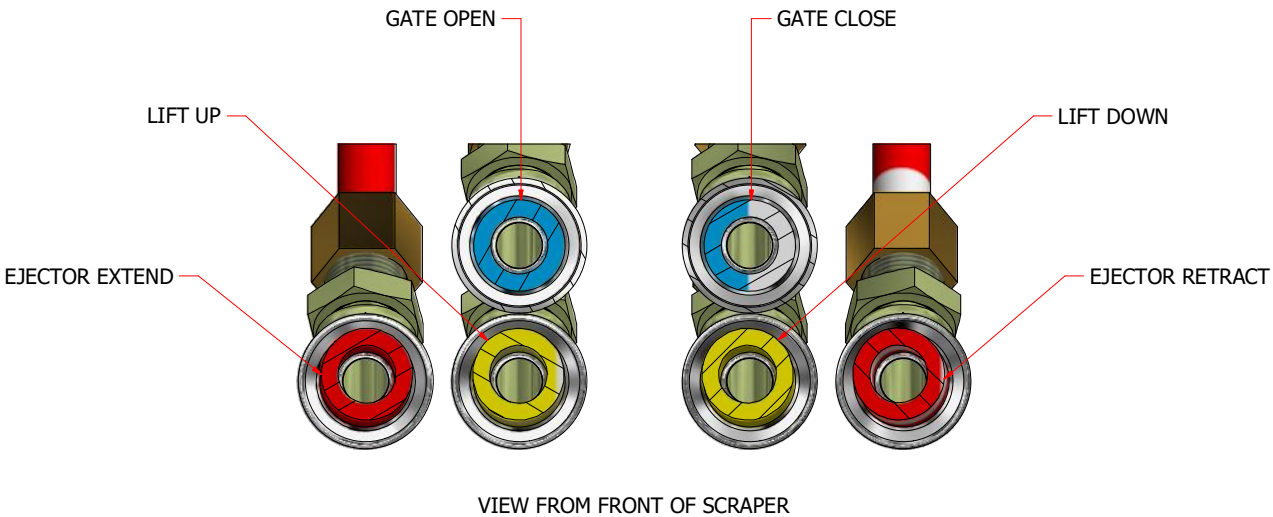


FACTORY RECOMMENDED
CONTROL SET UP

SOLID COLOR HOSES

LIFT DOWN	GATE OPEN	EJECTOR EXTEND
REMOTE 1	REMOTE 2	REMOTE 3
YELLOW	BLUE	RED
LIFT UP	GATE CLOSE	EJECTOR RETRACT

DOTTED COLOR HOSES

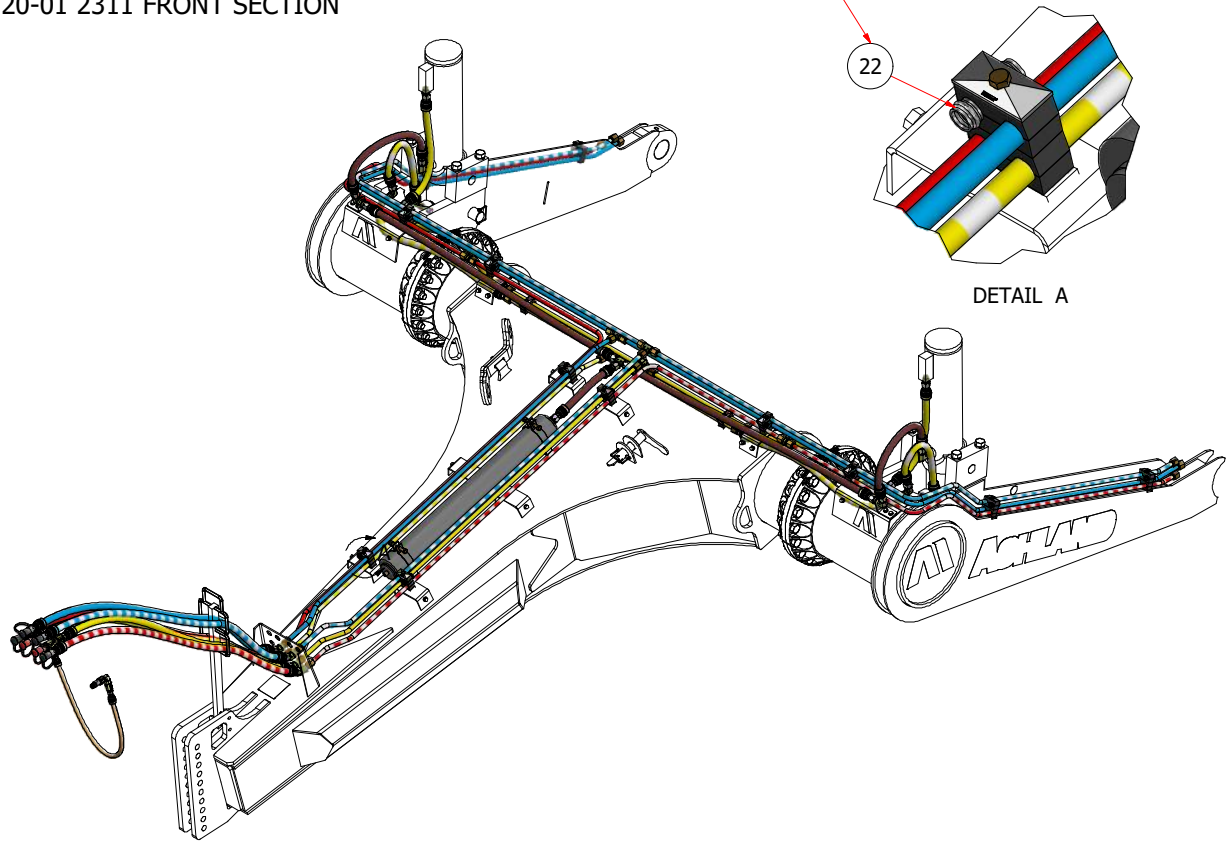


SECTION 2.01

HYDRAULICS

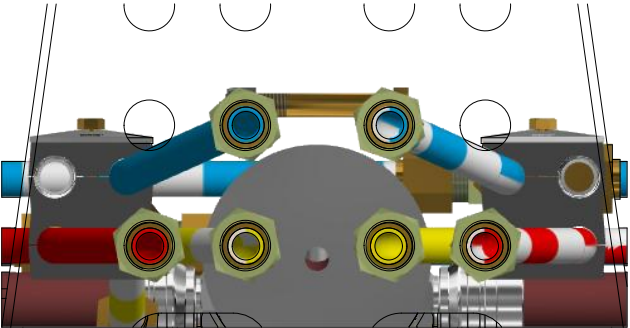
20-01 2311 FRONT SECTION

PLACE SPACERS IN **ALL** UNUSED SPACES.



DETAIL A

- REMOTE 1  LIFT UP
- REMOTE 1  LIFT DOWN
- REMOTE 2  GATE CLOSE
- REMOTE 2  GATE OPEN
- REMOTE 3  EJECTOR RETRACT
- REMOTE 3  EJECTOR EXTEND
-  CUSHION RIDE



HOSE ALIGNMENT AT BULKHEAD

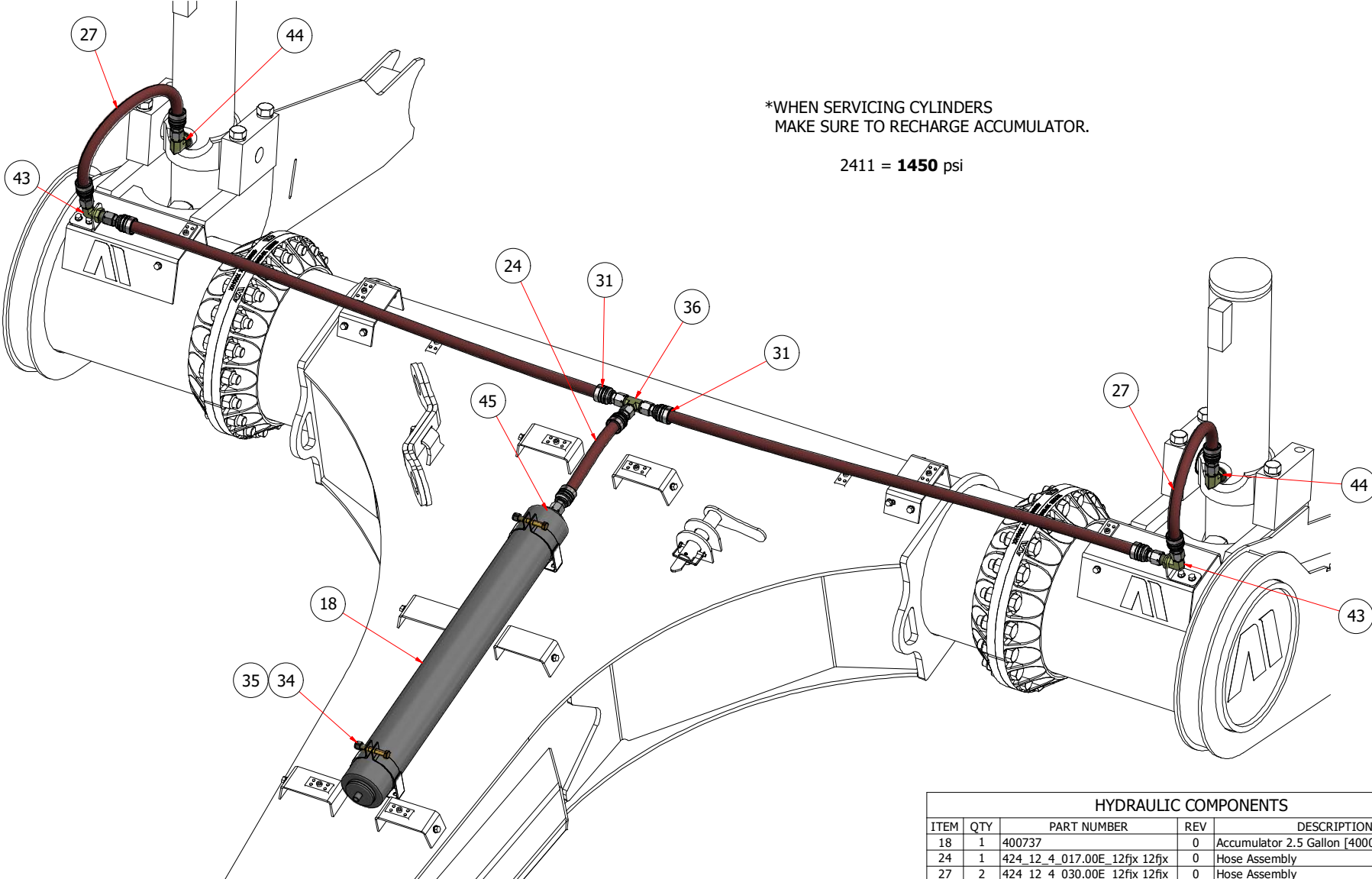
HYDRAULIC COMPONENTS

ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	4	400210	0	Dust Cap Male 1/2" Body Quick Connect – Black
2	2	400219	0	Dust Cap Male 1/2" Body Quick Connect – Red
3	2	400639	0	PO POLE LINE ASSEMBLY, FS
4	1	400640	0	APRON ROD END POLE LINE ASSEMBLY, FS
5	1	400641	0	LIFT BASE POLE LINE ASSEMBLY, FS
6	1	400642	0	APRON BASE POLE LINE ASSEMBLY, FS
7	1	400671	0	APRON BASE END ASSEMBLY RH, 2711
8	1	400673	0	3/4" PO BASE END ASSEMBLY, FS, 2711
9	1	400675	0	APRON ROD END ASSEMBLY RH, FS, 2711
10	1	400677	0	APRON BASE END ASSEMBLY LH, FS, 2711
11	1	400679	0	3/4" PO ROD END ASSEMBLY, FS, 2711
12	1	400681	0	APRON ROD END ASSEMBLY LH, FS, 2711
13	1	400696	0	CROSS PIPE LIFT ROD END LINE RH ASSEMBLY, FS
14	1	400698	0	CROSS PIPE LIFT BASE END LINE ASSEMBLY, FS
15	1	400701	0	LIFT ROD END POLE LINE ASSEMBLY, FS
16	1	400703	0	CROSS PIPE LIFT ROD END ASSEMBLY LH, FS
17	1	400705	0	CROSS PIPE LIFT BASE END ASSEMBLY LH, FS
18	1	400737	0	Accumulator 2.5 Gallon [4000 PSI]
19	1	407100023	0	Adapter Plug 1/2" NPT Orifice drilled for Case Drain
20	1	407100024	0	Adapter Reducer Bushing MNPT-12 x FNPT-08
21	1	407300006	0	Tip FF 3/8" Body FORB-08
22	12	4076_CS_0750	0	Tube_Clamp Spacer (K 3/4" Bead)
23	1	424_06_4_039.00E_06fx 08mp	0	Hose Assembly
24	1	424_12_4_017.00E_12fx 12fx	0	Hose Assembly
25	2	424_12_4_024.00E_12fx 12fx	0	Hose Assembly
26	2	424_12_4_025.50E_12fx 12fx	0	Hose Assembly
27	2	424_12_4_030.00E_12fx 12fx	0	Hose Assembly
28	1	424_12_4_030.50E_12mj 12fx	0	Hose Assembly
29	1	424_12_4_032.00E_12mj 12fx	0	Hose Assembly
30	2	424_12_4_035.50E_12mj 12fx	0	Hose Assembly
31	2	424_12_4_061.00E_12fx 12fx	0	Hose Assembly
32	1	424_12_4_096.00E_12fx 12mp	0	Hose Assembly
33	5	424_12_4_100.00E_12fx 12mp	0	Hose Assembly
34	2	AFB-00113	0	Bolt Gr. 8 UNC 1/2" x 3-1/2"
35	2	AFN-00078	0	Nut Gr. 5 UNC 1/2" Nylon Lock
36	5	AHA-00022A	0	Tee Nipple MJIC-12 3 way
37	2	AHA-00032	0	Adapter MJIC-12 x MJIC-12
38	2	AHA-00041	0	Adapter MORB-12 x MJIC-12
39	3	AHA-00042	0	Adapter 90° MJIC-12 x FJIC-12 Swivel
40	2	AHA-00044	0	Elbow 90 deg MORB-12 x MJIC-12
41	8	AHA-00063	0	BulkHead Elbow Nipple 45 deg MJIC-12 x MJIC-12
42	2	AHA-00094	0	Plug, SAE12 MORB Hollow Hex
43	4	AHA-00128	0	BulkHead 90° MJIC-12 x MJIC-12
44	2	AHA-00136	0	Elbow Adapter 90 deg MORB-16 x MJIC-12
45	1	AHA-00137	0	Adapter MORB-16 x MJIC-12
46	1	AHA-00139	0	Live Swivel MJIC-06 x FJIC-06
47	1	AHA-00140	0	Elbow 90 deg MORB-08 x MJIC-06
48	1	AHA-00141	0	Adapter MPipe-12 x FPipe-12 Swivel
49	1	AHA-00142	0	Tee Run Female MNPT-12 x FNPT-12 x FNPT-12
50	6	AHF-00021	0	Male Tip -12 FNPT x 1/2" Body (ISO 5675)
51	2	AHL-00002	0	Clamp Assembly (19 mm)
52	12	AHL-00022	0	Clamp Assembly (19 mm)

SECTION 2.01

HYDRAULICS

20-01 2311 HITCHPOLE, CUSHION RIDE



*WHEN SERVICING CYLINDERS
MAKE SURE TO RECHARGE ACCUMULATOR.

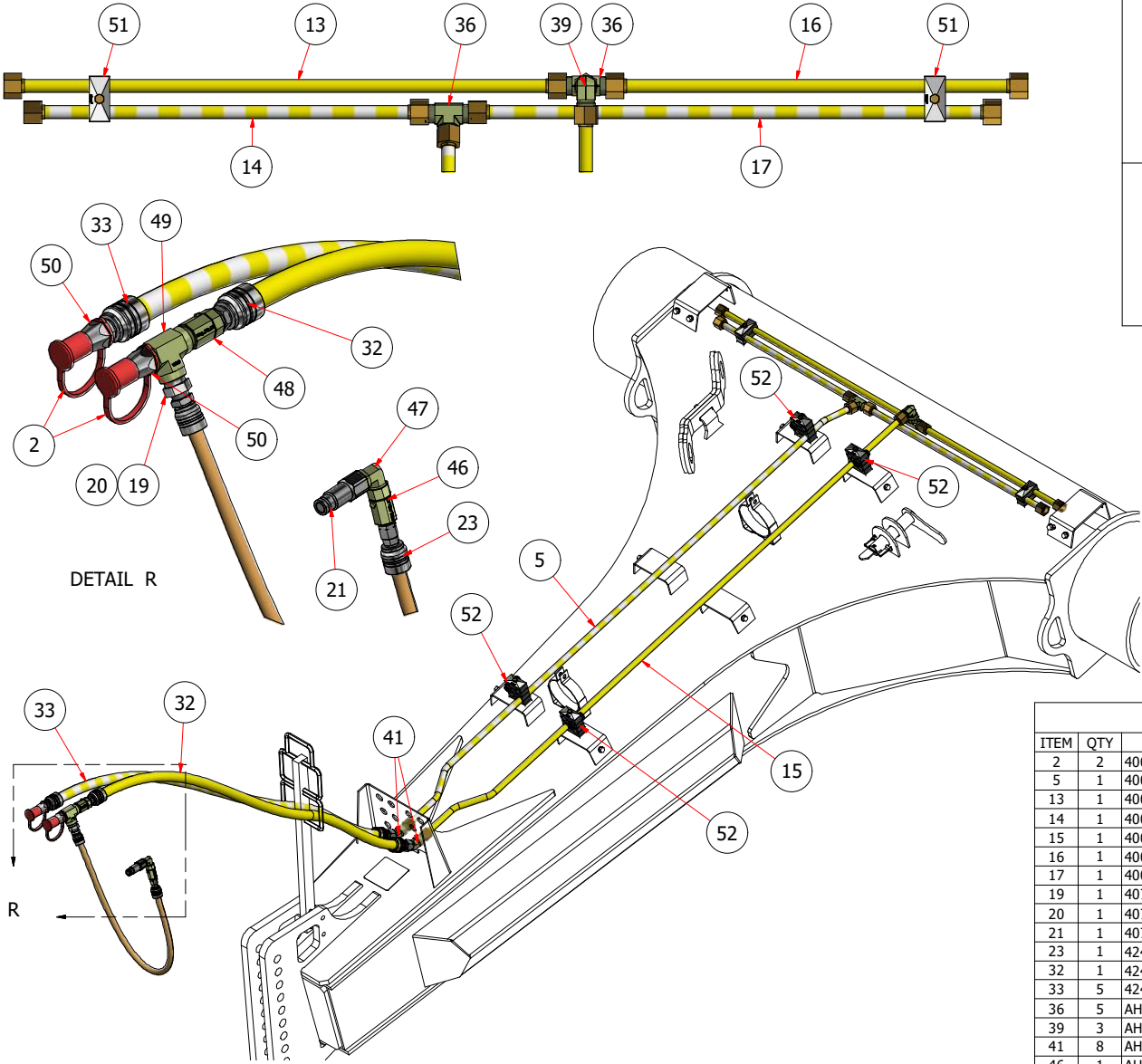
2411 = 1450 psi

HYDRAULIC COMPONENTS				
ITEM	QTY	PART NUMBER	REV	DESCRIPTION
18	1	400737	0	Accumulator 2.5 Gallon [4000 PSI]
24	1	424_12_4_017.00E_12fjx 12fjx	0	Hose Assembly
27	2	424_12_4_030.00E_12fjx 12fjx	0	Hose Assembly
31	2	424_12_4_061.00E_12fjx 12fjx	0	Hose Assembly
34	2	AFB-00113	0	Bolt Gr. 8 UNC 1/2" x 3-1/2"
35	2	AFN-00078	0	Nut Gr. 5 UNC 1/2" Nylon Lock
36	5	AHA-00022A	0	Tee Nipple MJIC-12 3 way
43	4	AHA-00128	0	BulkHead 90° MJIC-12 x MJIC-12
44	2	AHA-00136	0	Elbow Adapter 90 deg MORB-16 x MJIC-12

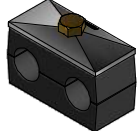
SECTION 2.01

HYDRAULICS

20-01 2311 HITCHPOLE, LIFT



KITS

		AHL-00022	
QTY		DESCRIPTION	
1		Bolt Gr. 8 UNC 5/16" x 1-3/4"	
4		Hose Clamp Half Twin 3D 19 mm	
1		Pipe Clamps Twin Series DIN 3015, Cover Plate 3D	
1		Stacking Bolt for Twin Clamps 3D 5/16-18 UNC	
1		Twin Clamp Safety Locking Plate 2-3D	
		AHL-00002	
QTY		DESCRIPTION	
1		Bolt Gr. 8 UNC 5/16" x 1-3/4"	
2		Hose Clamp Half Twin 3D 19 mm	
1		Pipe Clamps Twin Series DIN 3015, Cover Plate 3D	

HYDRAULIC COMPONENTS

ITEM	QTY	PART NUMBER	REV	DESCRIPTION
2	2	400219	0	Dust Cap Male 1/2" Body Quick Connect - Red
5	1	400641	0	LIFT BASE POLE LINE ASSEMBLY, FS
13	1	400696	0	CROSS PIPE LIFT ROD END LINE RH ASSEMBLY, FS
14	1	400698	0	CROSS PIPE LIFT BASE END LINE ASSEMBLY, FS
15	1	400701	0	LIFT ROD END POLE LINE ASSEMBLY, FS
16	1	400703	0	CROSS PIPE LIFT ROD END ASSEMBLY LH, FS
17	1	400705	0	CROSS PIPE LIFT BASE END ASSEMBLY LH, FS
19	1	407100023	0	Adapter Plug 1/2" NPT Orifice drilled for Case Drain
20	1	407100024	0	Adapter Reducer Bushing MNPT-12 x FNPT-08
21	1	407300006	0	Tip FF 3/8" Body FORB-08
23	1	424_06_4_039.00E_06fx 08mp	0	Hose Assembly
32	1	424_12_4_096.00E_12fx 12mp	0	Hose Assembly
33	5	424_12_4_100.00E_12fx 12mp	0	Hose Assembly
36	5	AHA-00022A	0	Tee Nipple MJIC-12 3 way
39	3	AHA-00042	0	Adapter 90° MJIC-12 x FJIC-12 Swivel
41	8	AHA-00063	0	BulkHead Elbow Nipple 45 deg MJIC-12 x MJIC-12
46	1	AHA-00139	0	Live Swivel MJIC-06 x FJIC-06
47	1	AHA-00140	0	Elbow 90 deg MORB-08 x MJIC-06
48	1	AHA-00141	0	Adapter MPipe-12 x FPipe-12 Swivel
49	1	AHA-00142	0	Tee Run Female MNPT-12 x FNPT-12 x FNPT-12
50	6	AHF-00021	0	Male Tip -12 FNPT x 1/2" Body (ISO 5675)
51	2	AHL-00002	0	Clamp Assembly (19 mm)
52	12	AHL-00022	0	Clamp Assembly (19 mm)

SECTION 2.01

HYDRAULICS

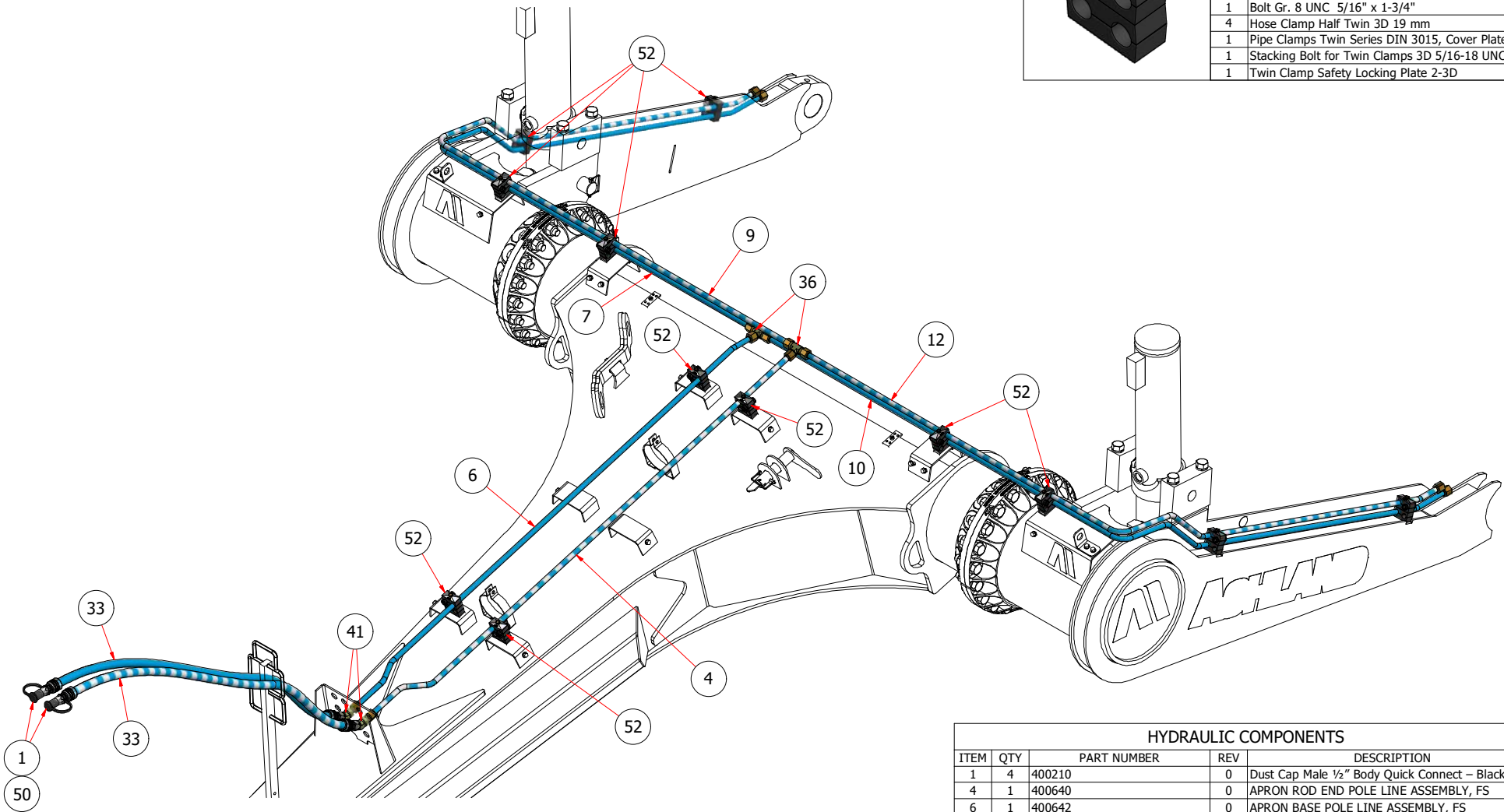
20-01 2311 HITCHPOLE, GATE

KITS



AHL-00022

QTY	DESCRIPTION
1	Bolt Gr. 8 UNC 5/16" x 1-3/4"
4	Hose Clamp Half Twin 3D 19 mm
1	Pipe Clamps Twin Series DIN 3015, Cover Plate 3D
1	Stacking Bolt for Twin Clamps 3D 5/16-18 UNC
1	Twin Clamp Safety Locking Plate 2-3D



HYDRAULIC COMPONENTS

ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	4	400210	0	Dust Cap Male 1/2" Body Quick Connect - Black
4	1	400640	0	APRON ROD END POLE LINE ASSEMBLY, FS
6	1	400642	0	APRON BASE POLE LINE ASSEMBLY, FS
7	1	400671	0	APRON BASE END ASSEMBLY RH, 2711
9	1	400675	0	APRON ROD END ASSEMBLY RH, FS, 2711
10	1	400677	0	APRON BASE END ASSEMBLY LH, FS, 2711
12	1	400681	0	APRON ROD END ASSEMBLY LH, FS, 2711
33	5	424_12_4_100.00E_12fx 12mp	0	Hose Assembly
36	5	AHA-00022A	0	Tee Nipple MJIC-12 3 way
41	8	AHA-00063	0	BulkHead Elbow Nipple 45 deg MJIC-12 x MJIC-12
50	6	AHF-00021	0	Male Tip -12 FNPT x 1/2" Body (ISO 5675)
52	12	AHL-00022	0	Clamp Assembly (19 mm)

SECTION 2.01

HYDRAULICS

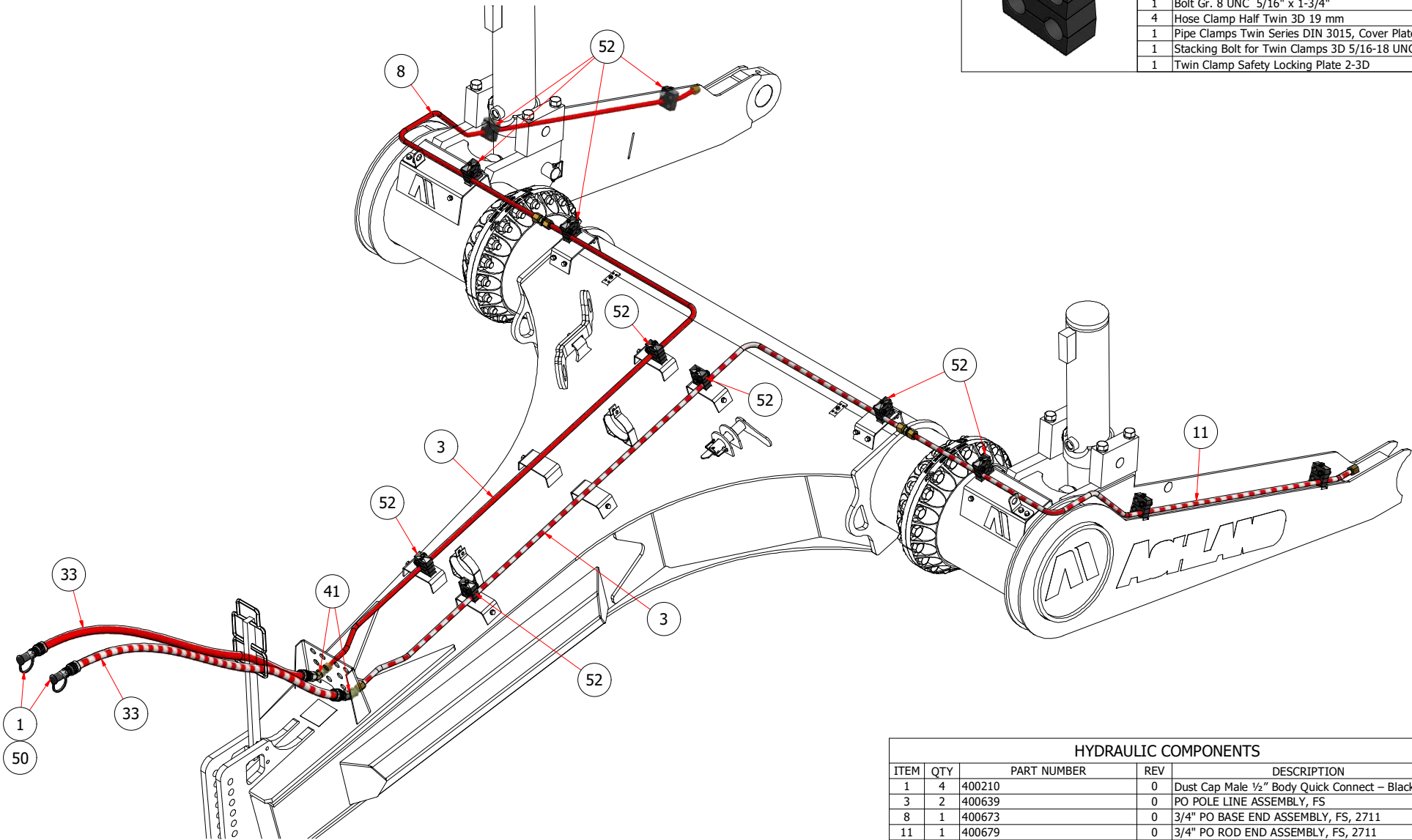
20-01 2311 HITCHPOLE, EJECTOR

KITS



AHL-00022

QTY	DESCRIPTION
1	Bolt Gr. 8 UNC 5/16" x 1-3/4"
4	Hose Clamp Half Twin 3D 19 mm
1	Pipe Clamps Twin Series DIN 3015, Cover Plate 3D
1	Stacking Bolt for Twin Clamps 3D 5/16-18 UNC
1	Twin Clamp Safety Locking Plate 2-3D



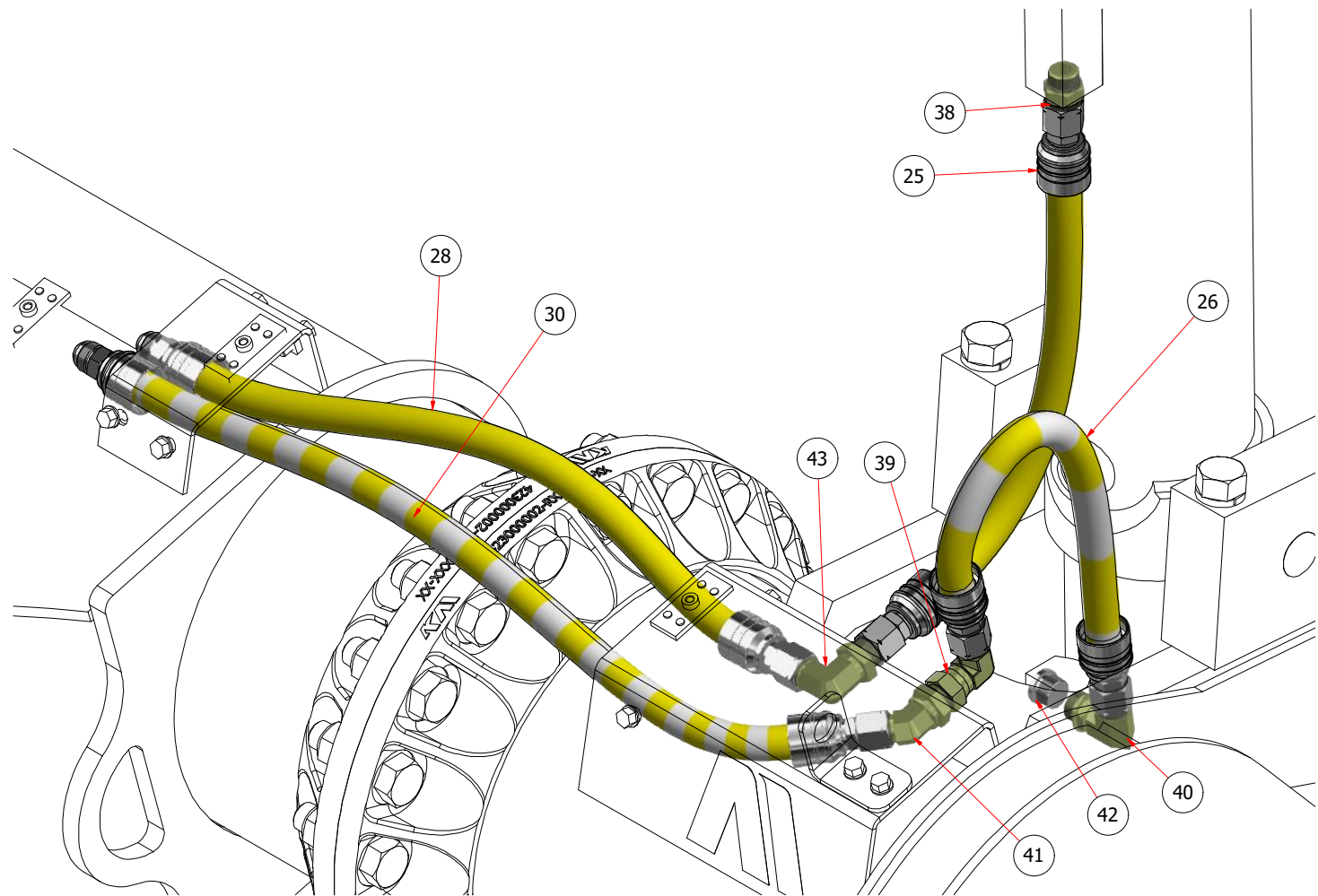
HYDRAULIC COMPONENTS

ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	4	400210	0	Dust Cap Male 1/2" Body Quick Connect - Black
3	2	400639	0	PO POLE LINE ASSEMBLY, FS
8	1	400673	0	3/4" PO BASE END ASSEMBLY, FS, 2711
11	1	400679	0	3/4" PO ROD END ASSEMBLY, FS, 2711
33	5	424_12_4_100.00E_12fjx 12mp	0	Hose Assembly
41	8	AHA-00063	0	Bulkhead Elbow Nipple 45 deg MJIC-12 x MJIC-12
50	6	AHF-00021	0	Male Tip -12 FNPT x 1/2" Body (ISO 5675)
52	12	AHL-00022	0	Clamp Assembly (19 mm)

SECTION 2.01

HYDRAULICS

20-01 2311 TRAILING ARM, LEFT

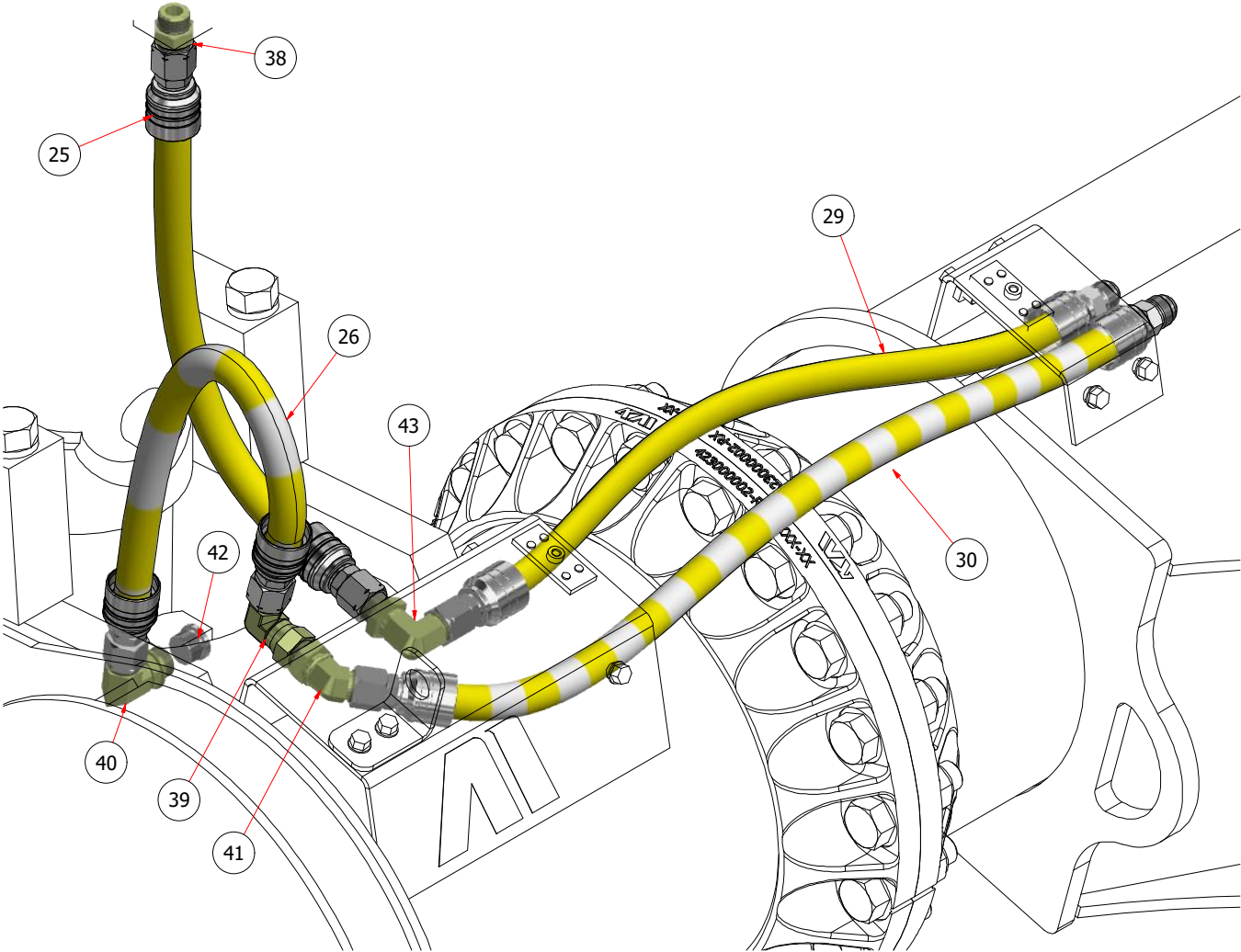


HYDRAULIC COMPONENTS					
ITEM	QTY	PART NUMBER	REV	DESCRIPTION	
25	2	424_12_4_024.00E_12fjx 12fjx	0	Hose Assembly	
26	2	424_12_4_025.50E_12fjx 12fjx	0	Hose Assembly	
28	1	424_12_4_030.50E_12mj 12fjx	0	Hose Assembly	
30	2	424_12_4_035.50E_12mj 12fjx	0	Hose Assembly	
38	2	AHA-00041	0	Adapter MORB-12 x MJIC-12	
39	3	AHA-00042	0	Adapter 90° MJIC-12 x FJIC-12 Swivel	
40	2	AHA-00044	0	Elbow 90 deg MORB-12 x MJIC-12	
41	8	AHA-00063	0	BulkHead Elbow Nipple 45 deg MJIC-12 x MJIC-12	
42	2	AHA-00094	0	Plug, SAE12 MORB Hollow Hex	
43	4	AHA-00128	0	BulkHead 90° MJIC-12 x MJIC-12	

SECTION 2.01

HYDRAULICS

20-01 2311 TRAILING ARM, RIGHT



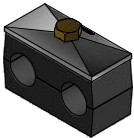
HYDRAULIC COMPONENTS					
ITEM	QTY	PART NUMBER	REV	DESCRIPTION	
25	2	424_12_4_024.00E_12fjx 12fjx	0	Hose Assembly	
26	2	424_12_4_025.50E_12fjx 12fjx	0	Hose Assembly	
29	1	424_12_4_032.00E_12mj 12fjx	0	Hose Assembly	
30	2	424_12_4_035.50E_12mj 12fjx	0	Hose Assembly	
38	2	AHA-00041	0	Adapter MORB-12 x MJIC-12	
39	3	AHA-00042	0	Adapter 90° MJIC-12 x FJIC-12 Swivel	
40	2	AHA-00044	0	Elbow 90 deg MORB-12 x MJIC-12	
41	8	AHA-00063	0	BulkHead Elbow Nipple 45 deg MJIC-12 x MJIC-12	
42	2	AHA-00094	0	Plug, SAE12 MORB Hollow Hex	
43	4	AHA-00128	0	BulkHead 90° MJIC-12 x MJIC-12	

SECTION 2.02

HYDRAULICS

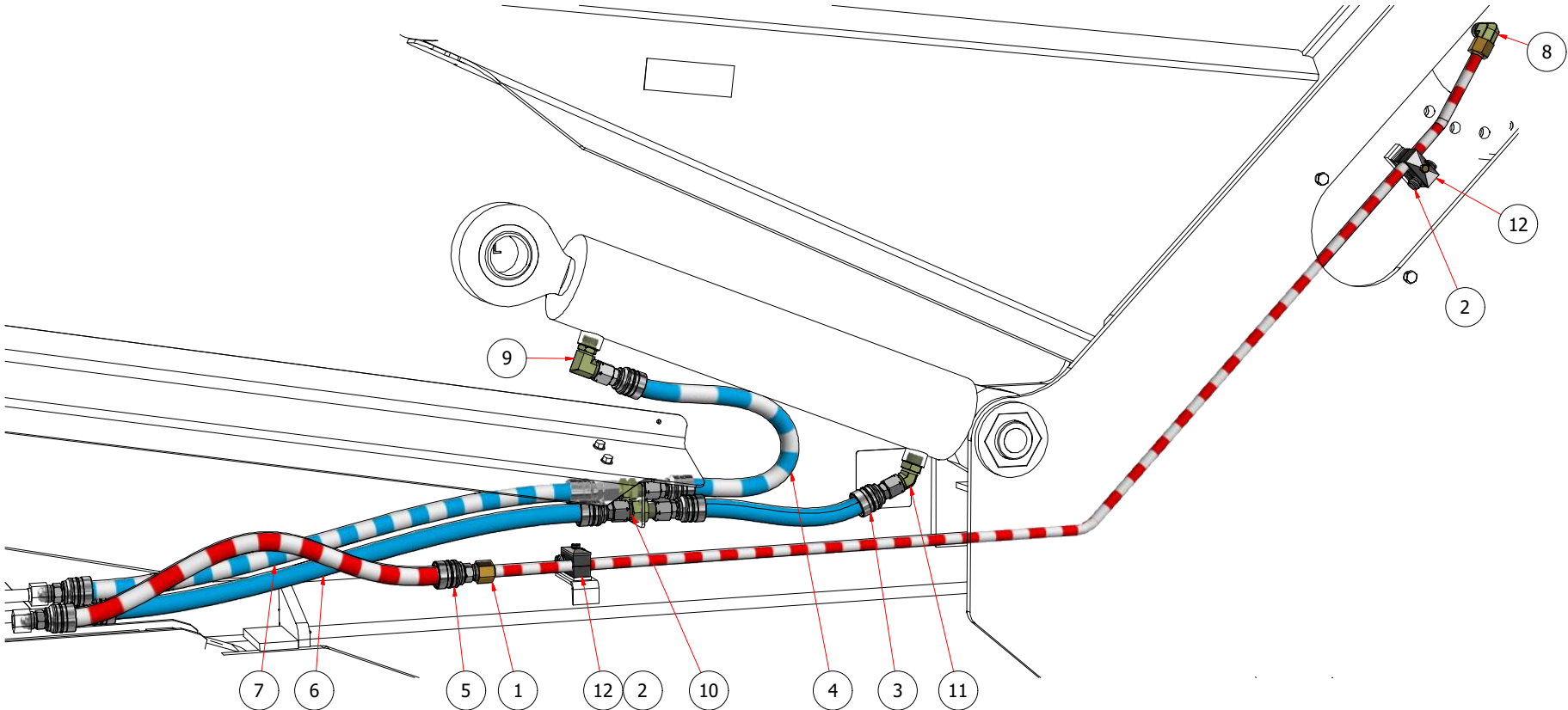
20-01 2311 SIDEWALL, LEFT

KITS



AHL-00002

QTY	DESCRIPTION
1	Bolt Gr. 8 UNC 5/16" x 1-3/4"
2	Hose Clamp Half Twin 3D 19 mm
1	Pipe Clamps Twin Series, Cover Plate



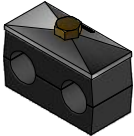
HYDRAULIC COMPONENTS

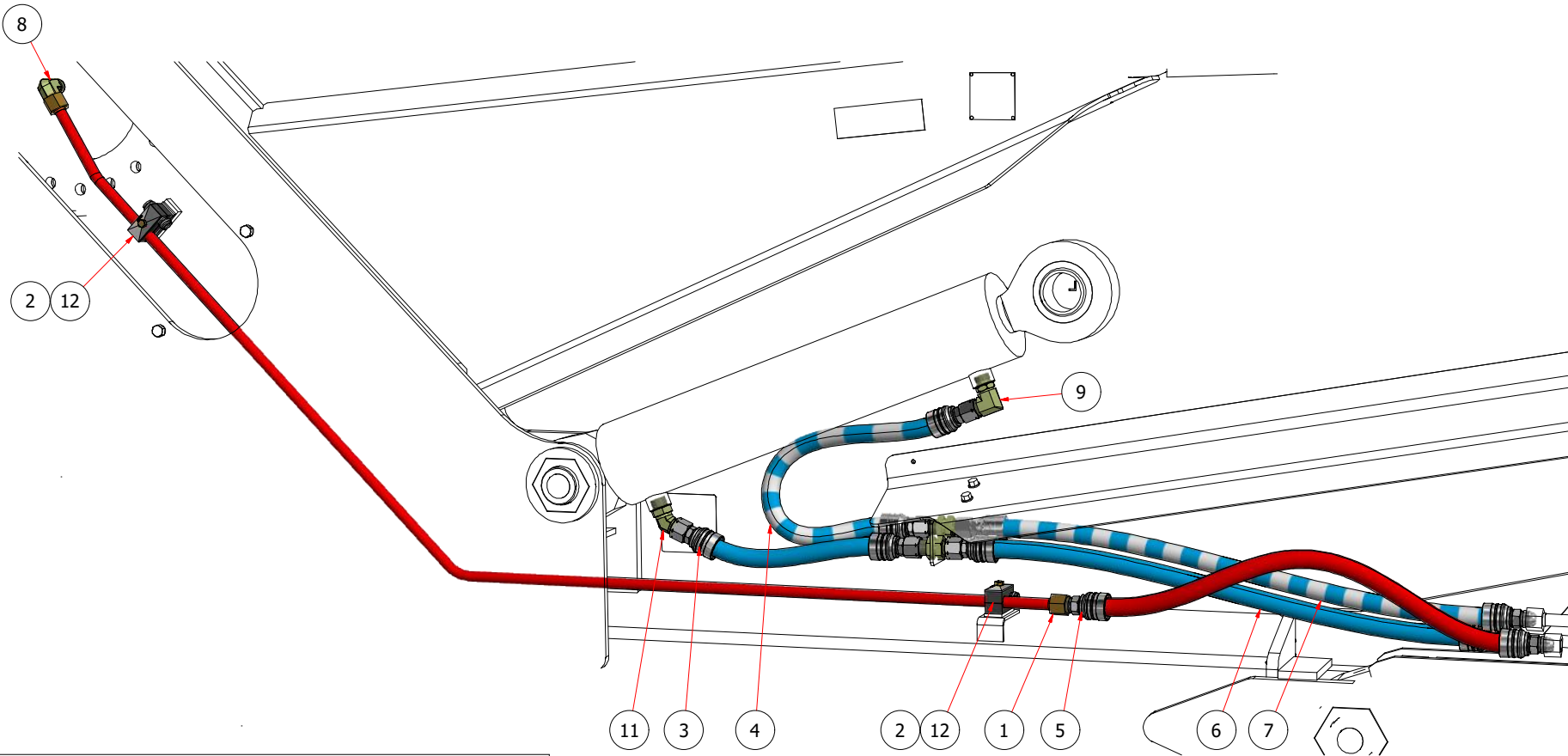
ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	1	400725	0	REAR PUSH OFF HARD LINE ASSEMBLY
2	2	4076_CS_0750	0	Tube_Clamp Spacer (K 3/4" Bead)
3	1	424_12_4_019.00E_12fjx 12fjx	0	Hose Assembly
4	1	424_12_4_029.50E_12fjx 12fjx	0	Hose Assembly
5	1	424_12_4_036.00E_12mj 12mj	0	Hose Assembly
6	1	424_12_4_038.00E_12mj 12fjx	0	Hose Assembly
7	1	424_12_4_039.50E_12mj 12fjx	0	Hose Assembly
8	1	AHA-00019	0	Adapter 90° MJIC-12 x MJIC-12
9	1	AHA-00044	0	Elbow 90 deg MORB-12 x MJIC-12
10	2	AHA-00096	0	BulkHead Nipple MJIC-12 x MJIC-12
11	1	AHA-00127	0	Elbow Adapter 45 deg MORB-12 x MJIC-12
12	2	AHL-00002	0	Clamp Assembly (19 mm)

SECTION 2.02

HYDRAULICS

20-01 2311 SIDEWALL, RIGHT

KITS	
	
AHL-00002	
QTY	DESCRIPTION
1	Bolt Gr. 8 UNC 5/16" x 1-3/4"
2	Hose Clamp Half Twin 3D 19 mm
1	Pipe Clamps Twin Series, Cover Plate

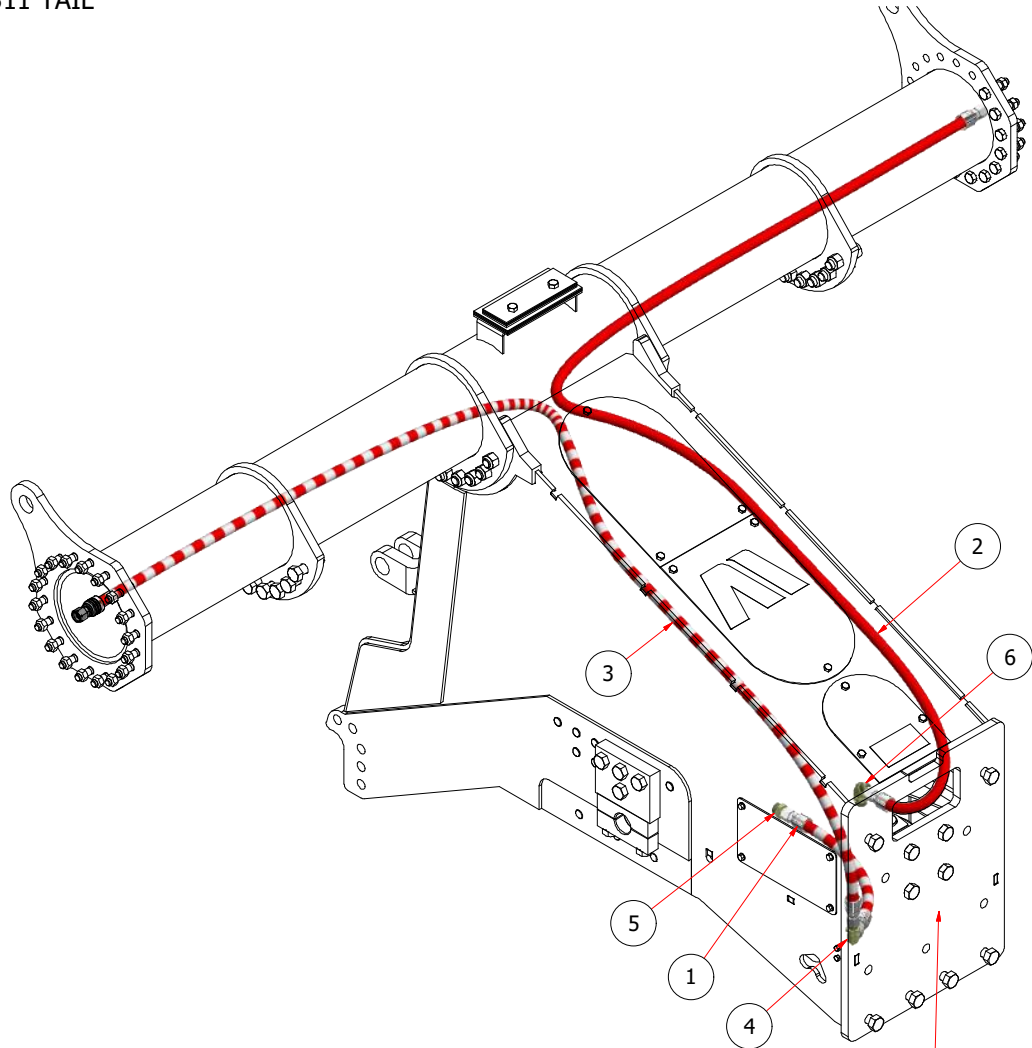


HYDRAULIC COMPONENTS				
ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	1	400725	0	REAR PUSH OFF HARD LINE ASSEMBLY
2	2	4076_CS_0750	0	Tube_Clamp Spacer (K 3/4" Bead)
3	1	424_12_4_019.00E_12fjx 12fjx	0	Hose Assembly
4	1	424_12_4_029.50E_12fjx 12fjx	0	Hose Assembly
5	1	424_12_4_036.00E_12mj 12mj	0	Hose Assembly
6	1	424_12_4_038.00E_12mj 12fjx	0	Hose Assembly
7	1	424_12_4_039.50E_12mj 12fjx	0	Hose Assembly
8	1	AHA-00019	0	Adapter 90° MJIC-12 x MJIC-12
9	1	AHA-00044	0	Elbow 90 deg MORB-12 x MJIC-12
10	2	AHA-00096	0	BulkHead Nipple MJIC-12 x MJIC-12
11	1	AHA-00127	0	Elbow Adapter 45 deg MORB-12 x MJIC-12
12	2	AHL-00002	0	Clamp Assembly (19 mm)

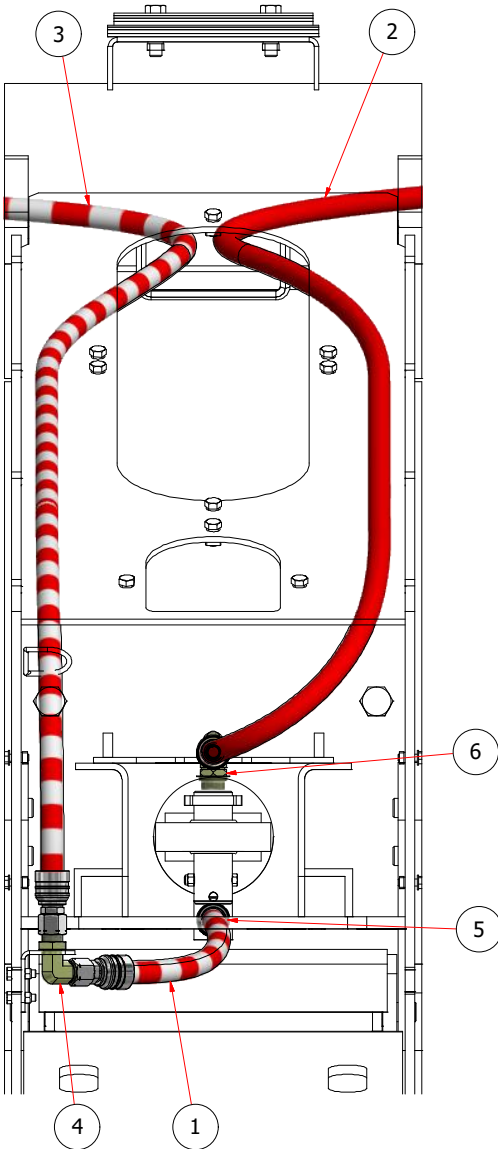
SECTION 2.03

HYDRAULICS

20-01 2311 TAIL



PUSH BUMPER HIDDEN



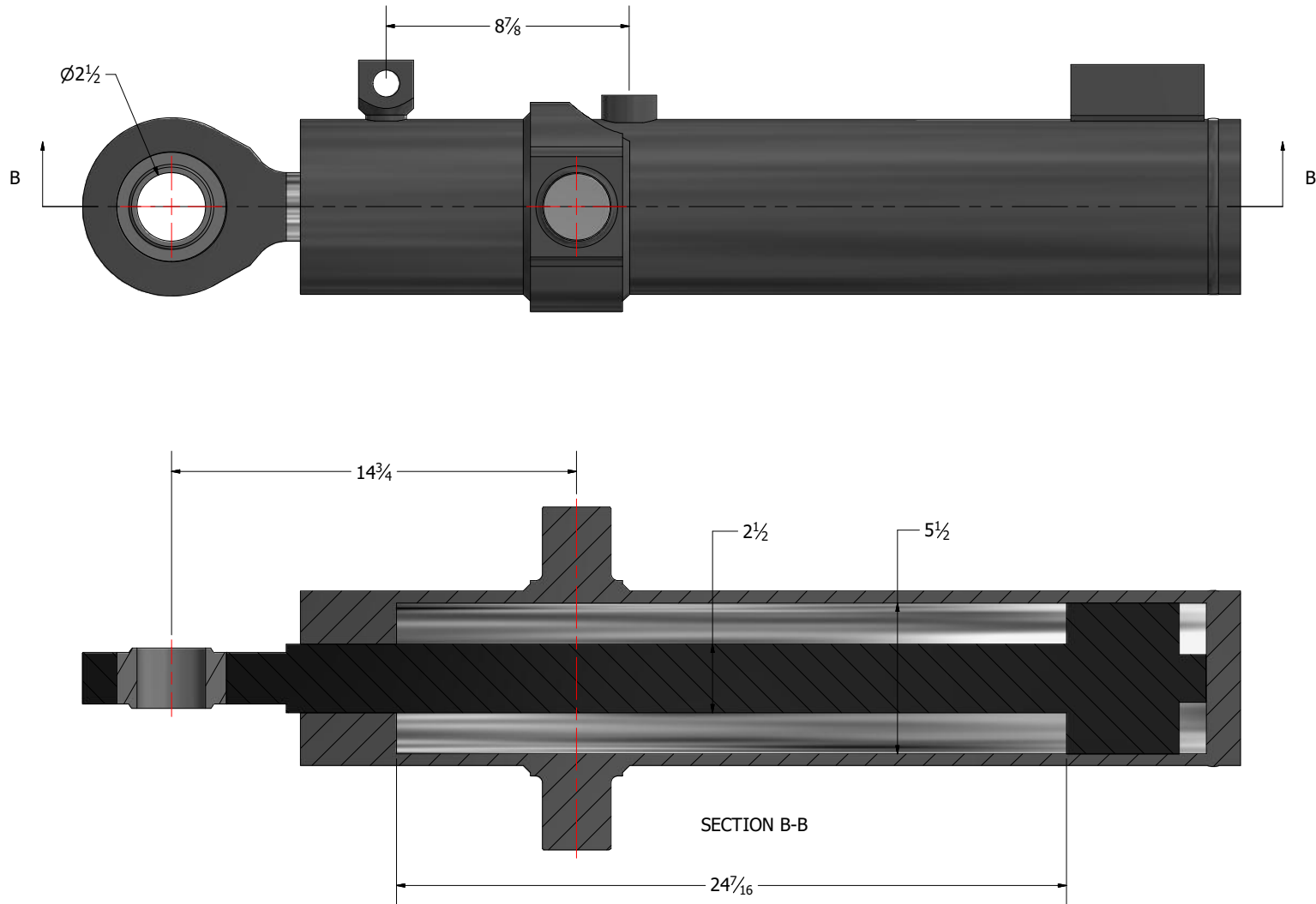
HYDRAULIC COMPONENTS

ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	1	424_12_4_022.00E_12fjx 12fjx	0	Hose Assembly
2	1	424_12_4_130.00E_12fjx 12fjx	0	Hose Assembly
3	1	424_12_4_134.00E_12fjx 12fjx	0	Hose Assembly
4	1	AHA-00128	0	BulkHead 90° MJIC-12 x MJIC-12
5	1	AHA-00137	0	Adapter MORB-16 x MJIC-12
6	1	AHA-00138	0	Elbow 45 deg MORB-16 x MJIC-12

SECTION 3.00

HYDRAULIC CYLINDERS

20-01 2311 LIFT CYLINDER



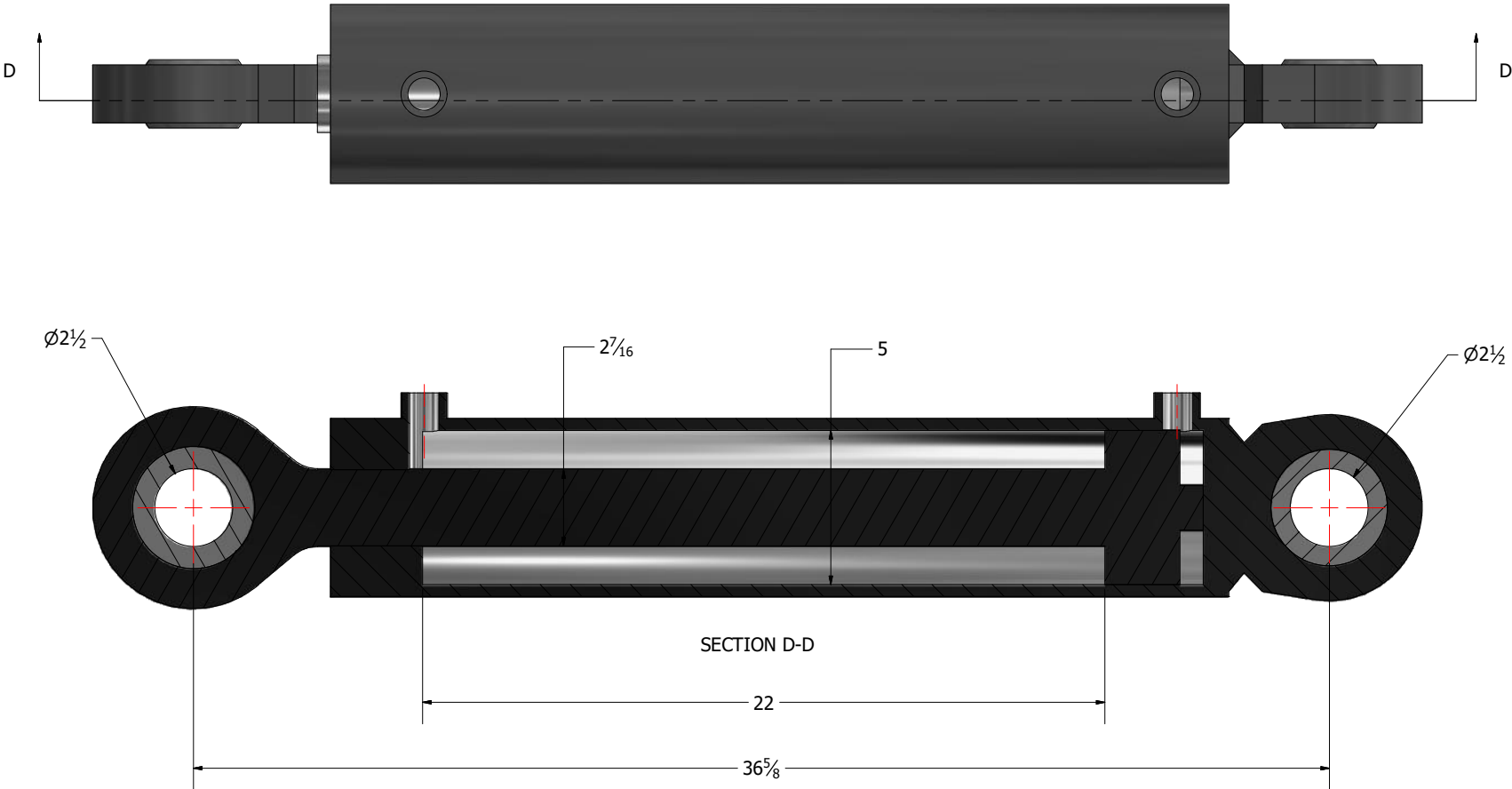
Seal Kit # 431972P
Ashland 400731 (RR 150572)

401100032

SECTION 3.00

HYDRAULIC CYLINDERS

20-01 2311 GATE CYLINDER



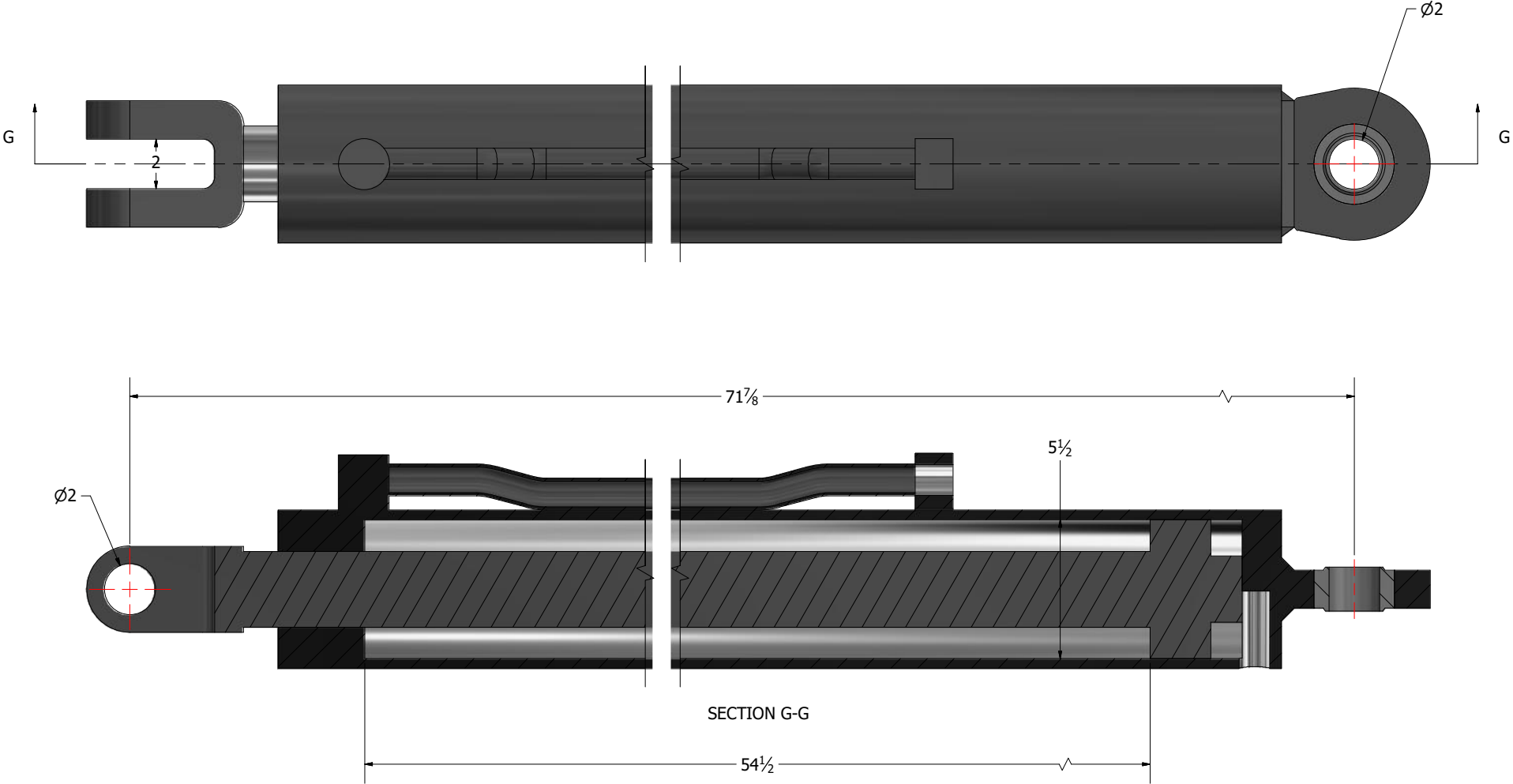
Seal Kit # 432288P
Ashland 400592 (RR 150543)

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SECTION 3.00

HYDRAULIC CYLINDERS

20-01 2311 EJECTOR CYLINDER



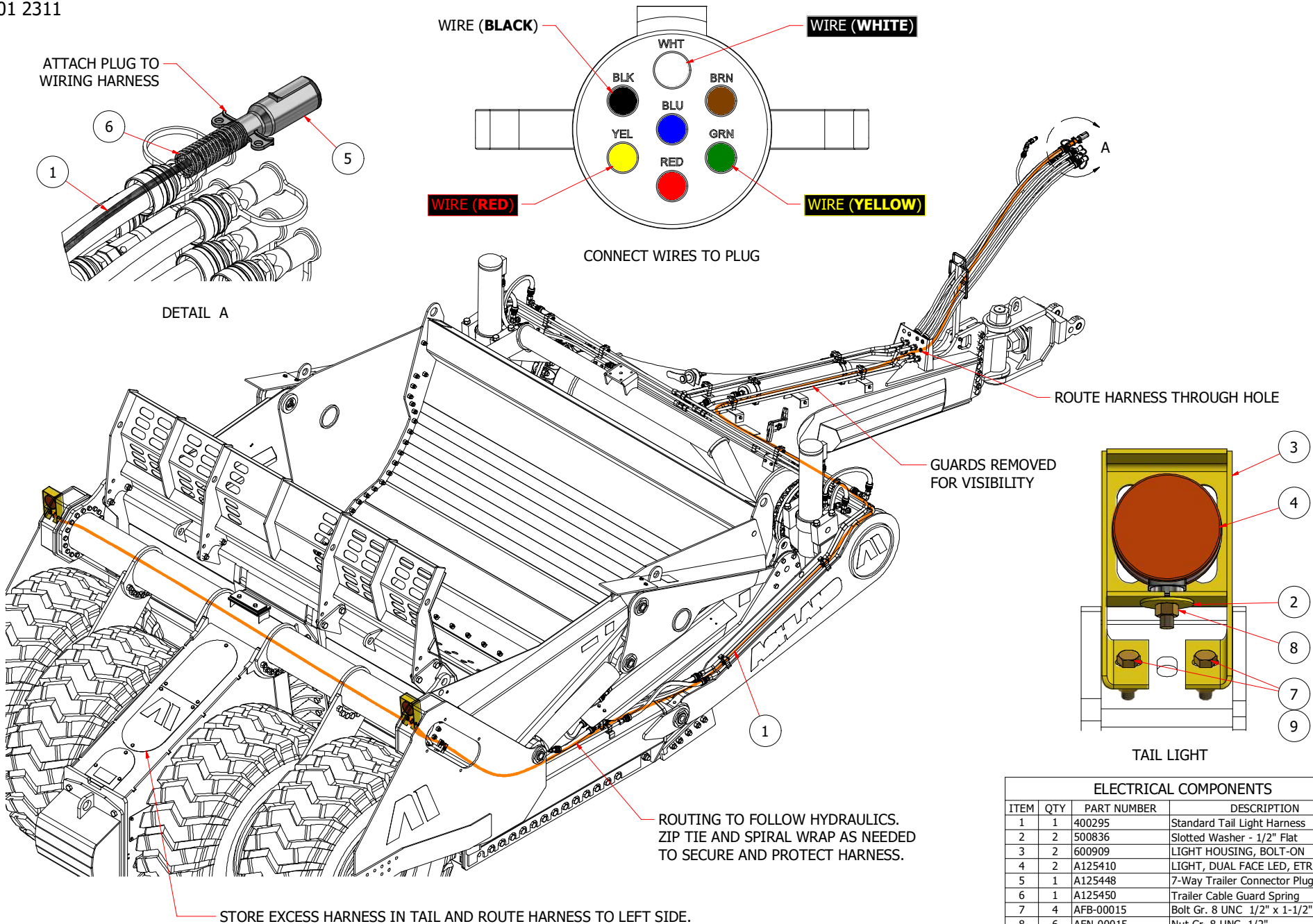
Seal Kit # 432406P
Ashland 400721 (RR 150571)

401300036

SECTION 4.00

ELECTRICAL

20-01 2311

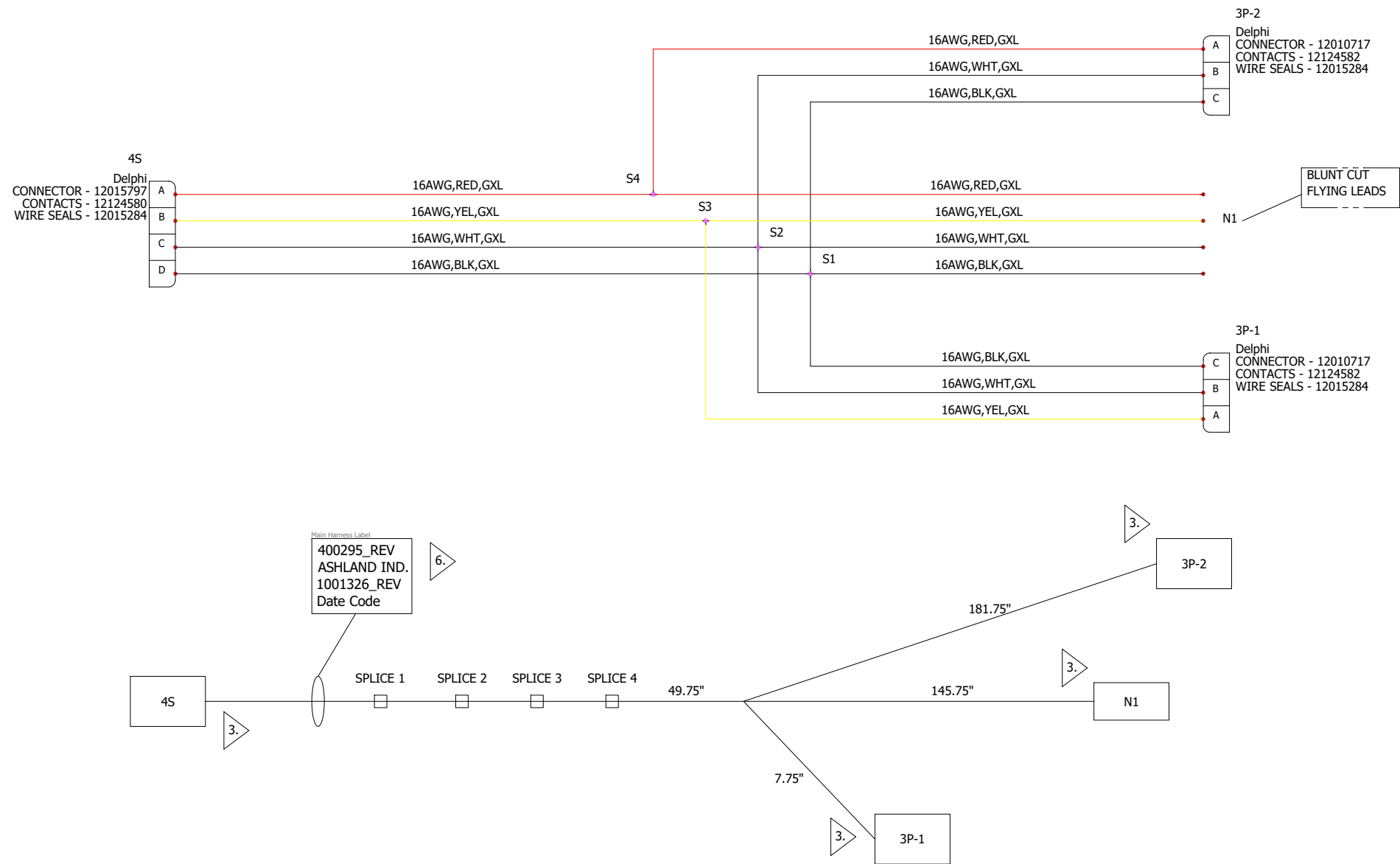


ELECTRICAL COMPONENTS				
ITEM	QTY	PART NUMBER	DESCRIPTION	
1	1	400295	Standard Tail Light Harness	
2	2	500836	Slotted Washer - 1/2" Flat	
3	2	600909	LIGHT HOUSING, BOLT-ON	
4	2	A125410	LIGHT, DUAL FACE LED, ETRAILER	
5	1	A125448	7-Way Trailer Connector Plug	
6	1	A125450	Trailer Cable Guard Spring	
7	4	AFB-00015	Bolt Gr. 8 UNC 1/2" x 1-1/2"	
8	6	AFN-00015	Nut Gr. 8 UNC 1/2"	
9	4	AFW-00009	Washer Gr. 8 - 1/2" Structural	

SECTION 4.00

ELECTRICAL

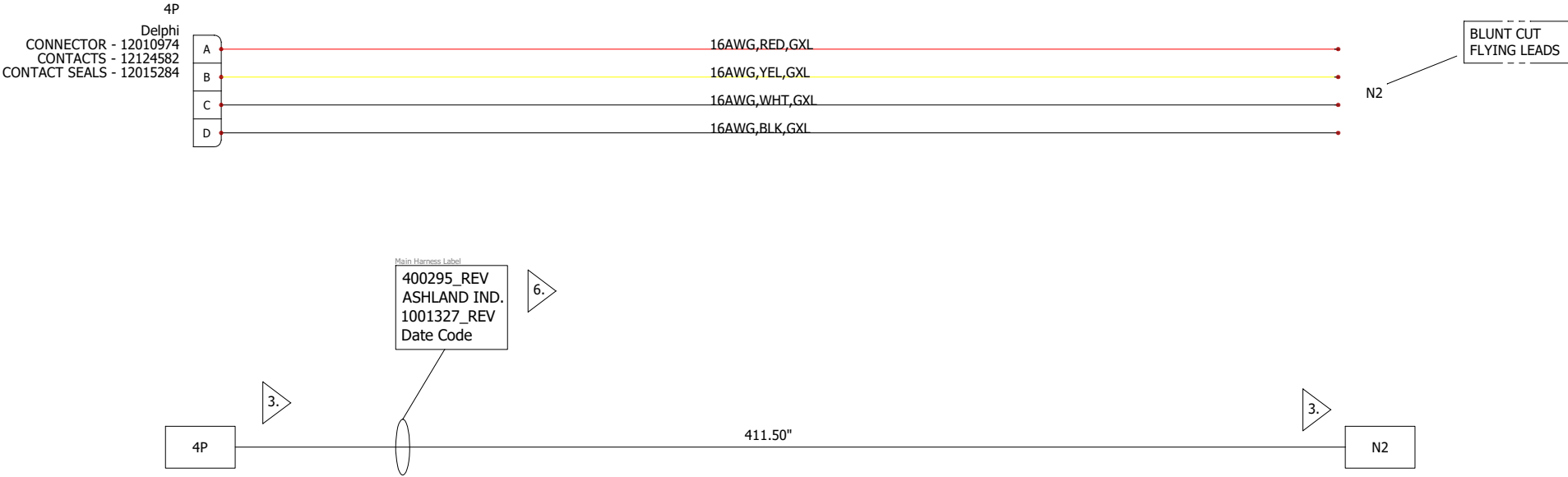
400295 HARNESS DIAGRAM



SECTION 4.00

ELECTRICAL

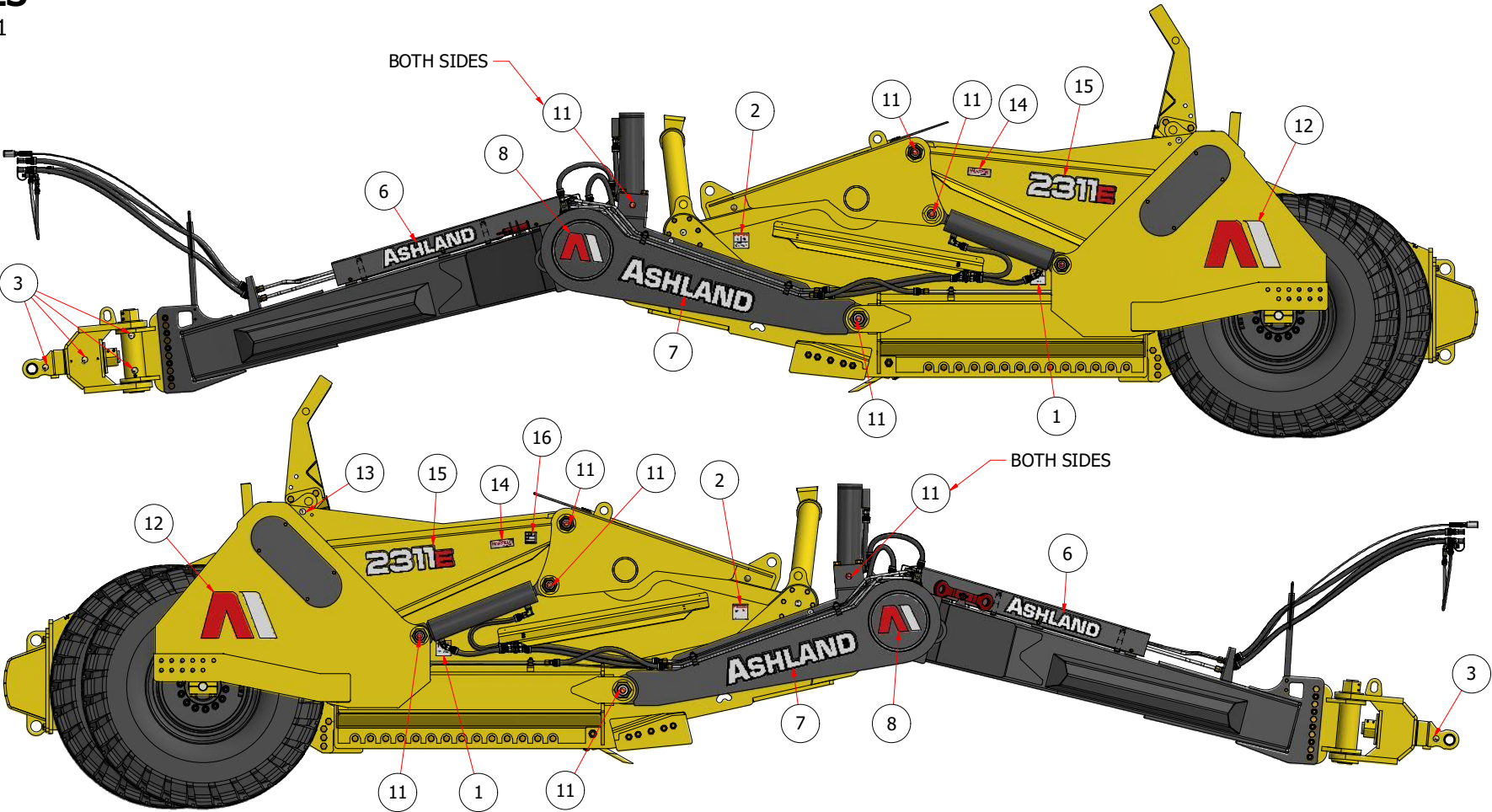
400295 HARNESS DIAGRAM



SECTION 5.00

DECALS

20-01 2311



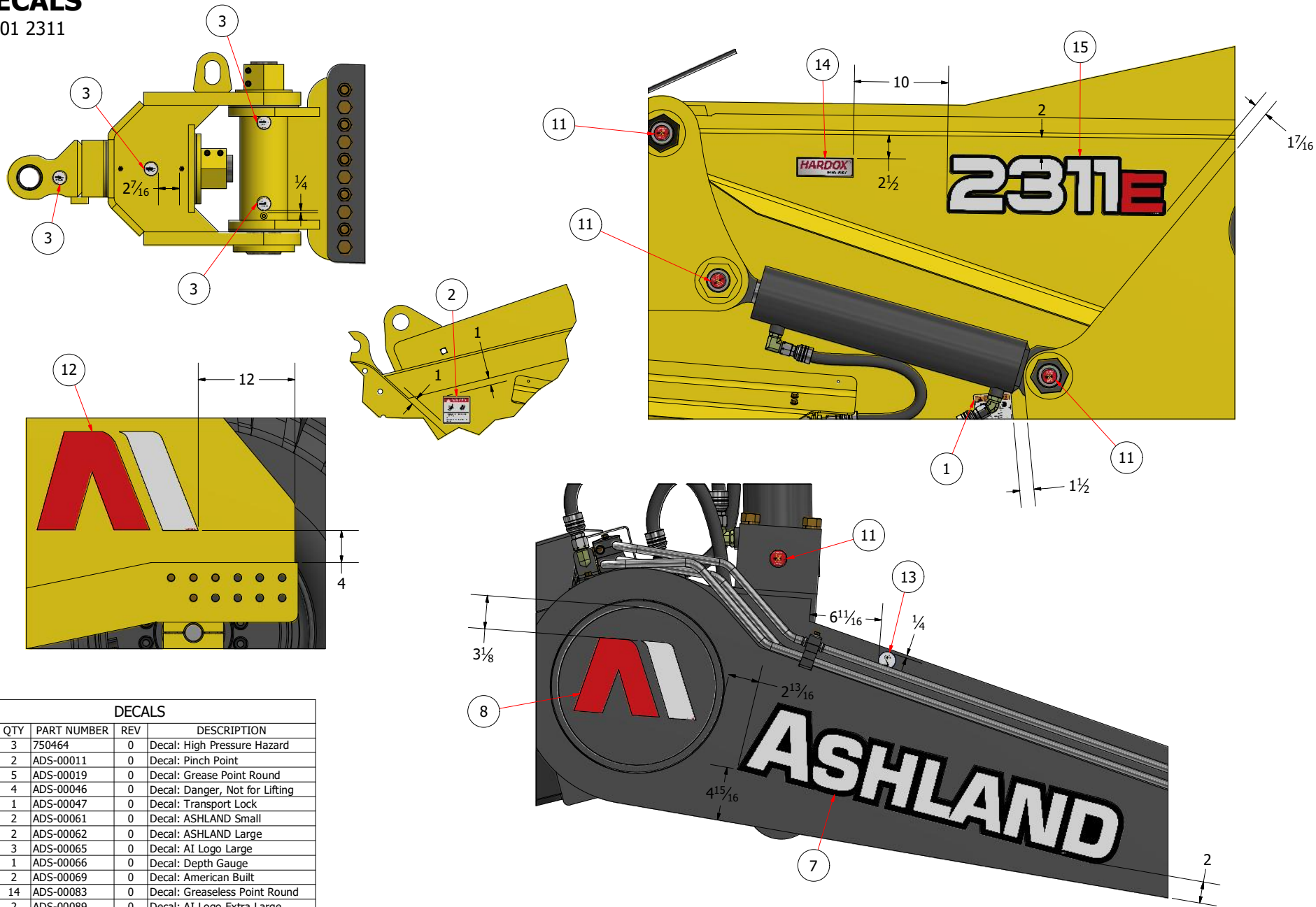
DECALS

ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	3	750464	0	Decal: High Pressure Hazard
2	2	ADS-00011	0	Decal: Pinch Point
3	5	ADS-00019	0	Decal: Grease Point Round
4	4	ADS-00046	0	Decal: Danger, Not for Lifting
5	1	ADS-00047	0	Decal: Transport Lock
6	2	ADS-00061	0	Decal: ASHLAND Small
7	2	ADS-00062	0	Decal: ASHLAND Large
8	3	ADS-00065	0	Decal: AI Logo Large
9	1	ADS-00066	0	Decal: Depth Gauge
10	2	ADS-00069	0	Decal: American Built
11	14	ADS-00083	0	Decal: Greaseless Point Round
12	2	ADS-00089	0	Decal: AI Logo Extra Large
13	6	ADS-00091	0	Decal: Lift Point Round
14	2	ADS-00093	0	Decal: Hardox
15	2	ADS-00095	0	Decal: Model 2311E Badge
16	1	SERIAL PLATE	0	Decal: Serial Plate

SECTION 5.00

DECALS

20-01 2311



DECALS

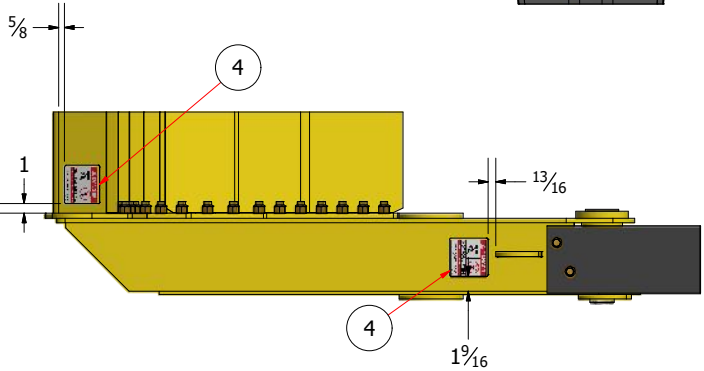
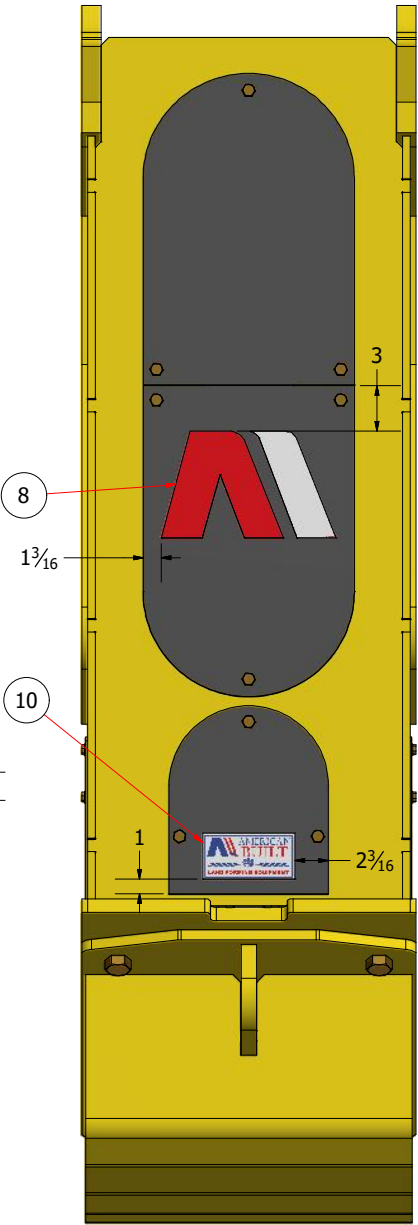
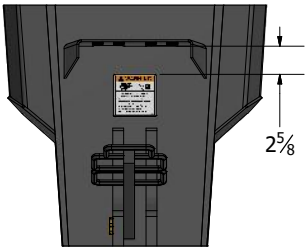
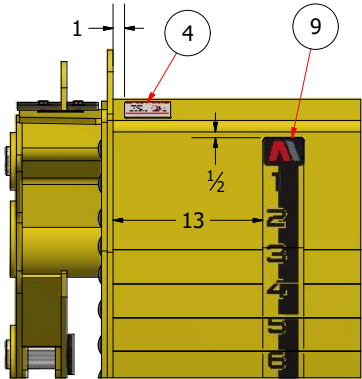
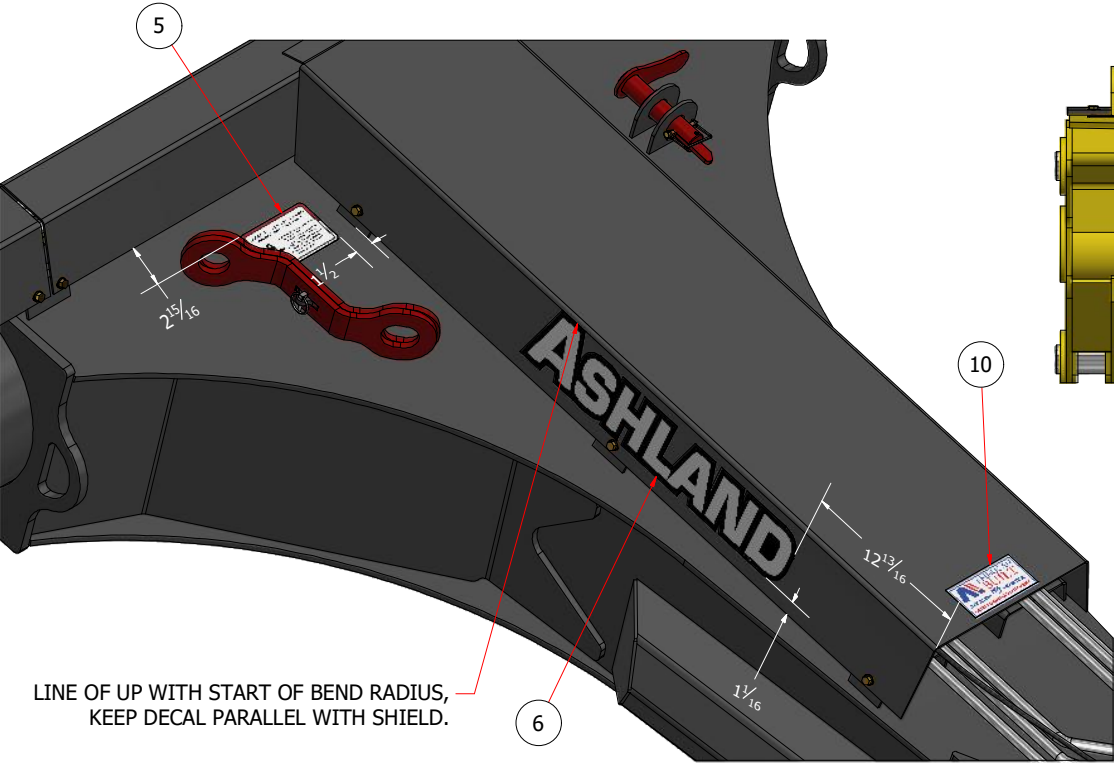
ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	3	750464	0	Decal: High Pressure Hazard
2	2	ADS-00011	0	Decal: Pinch Point
3	5	ADS-00019	0	Decal: Grease Point Round
4	4	ADS-00046	0	Decal: Danger, Not for Lifting
5	1	ADS-00047	0	Decal: Transport Lock
6	2	ADS-00061	0	Decal: ASHLAND Small
7	2	ADS-00062	0	Decal: ASHLAND Large
8	3	ADS-00065	0	Decal: AI Logo Large
9	1	ADS-00066	0	Decal: Depth Gauge
10	2	ADS-00069	0	Decal: American Built
11	14	ADS-00083	0	Decal: Greaseless Point Round
12	2	ADS-00089	0	Decal: AI Logo Extra Large
13	6	ADS-00091	0	Decal: Lift Point Round
14	2	ADS-00093	0	Decal: Hardox
15	2	ADS-00095	0	Decal: Model 2311E Badge
16	1	SERIAL PLATE	0	Decal: Serial Plate

DIMENSIONS ARE TYPICAL FOR BOTH LEFT AND RIGHT SIDES OF MACHINE.

SECTION 5.00

DECALS

20-01 2311



DECALS				
ITEM	QTY	PART NUMBER	REV	DESCRIPTION
1	3	750464	0	Decal: High Pressure Hazard
2	2	ADS-00011	0	Decal: Pinch Point
3	5	ADS-00019	0	Decal: Grease Point Round
4	4	ADS-00046	0	Decal: Danger, Not for Lifting
5	1	ADS-00047	0	Decal: Transport Lock
6	2	ADS-00061	0	Decal: ASHLAND Small
7	2	ADS-00062	0	Decal: ASHLAND Large
8	3	ADS-00065	0	Decal: AI Logo Large
9	1	ADS-00066	0	Decal: Depth Gauge
10	2	ADS-00069	0	Decal: American Built
11	14	ADS-00083	0	Decal: Greaseless Point Round
12	2	ADS-00089	0	Decal: AI Logo Extra Large
13	6	ADS-00091	0	Decal: Lift Point Round
14	2	ADS-00093	0	Decal: Hardox
15	2	ADS-00095	0	Decal: Model 2311E Badge
16	1	SERIAL PLATE	0	Decal: Serial Plate