



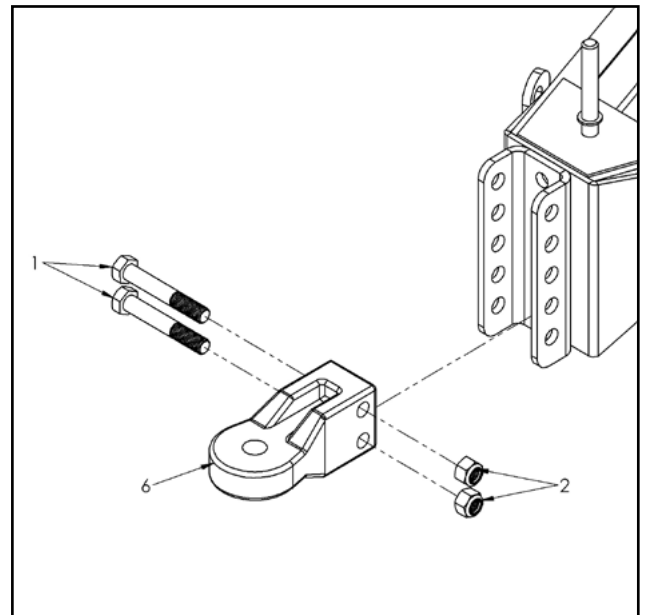
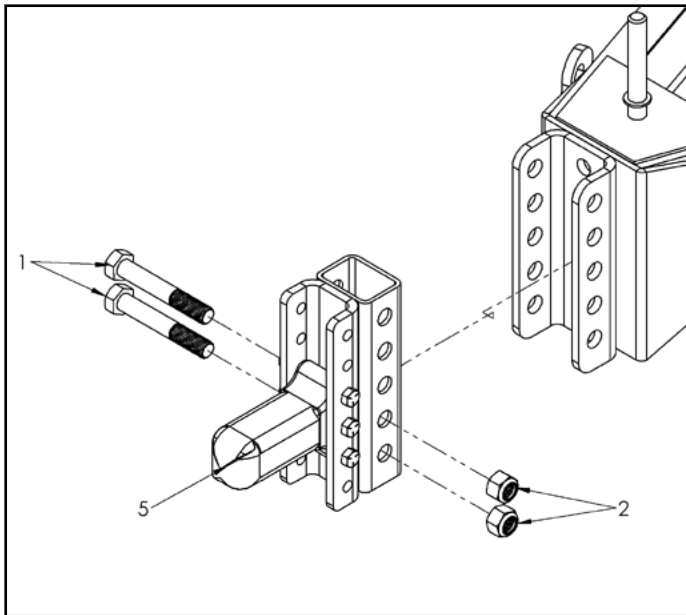
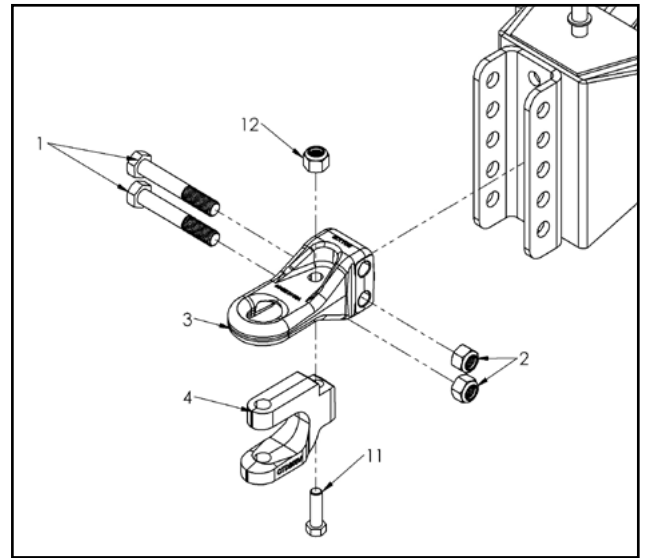
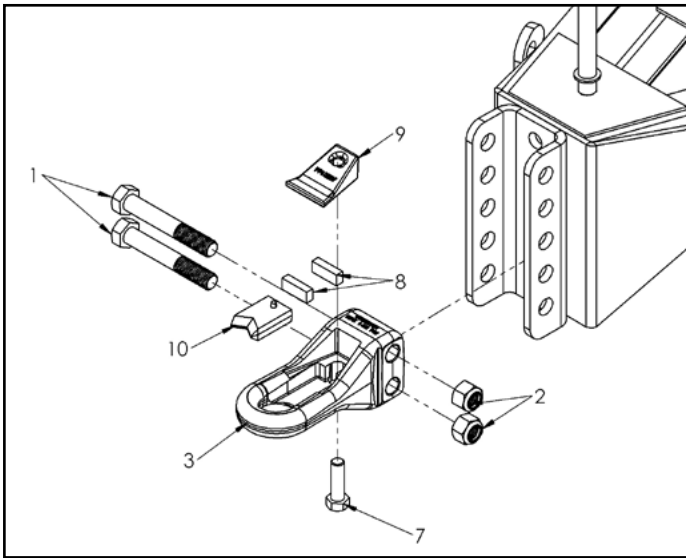
SF5 Spreader

Illustrated Parts Breakdown

Page

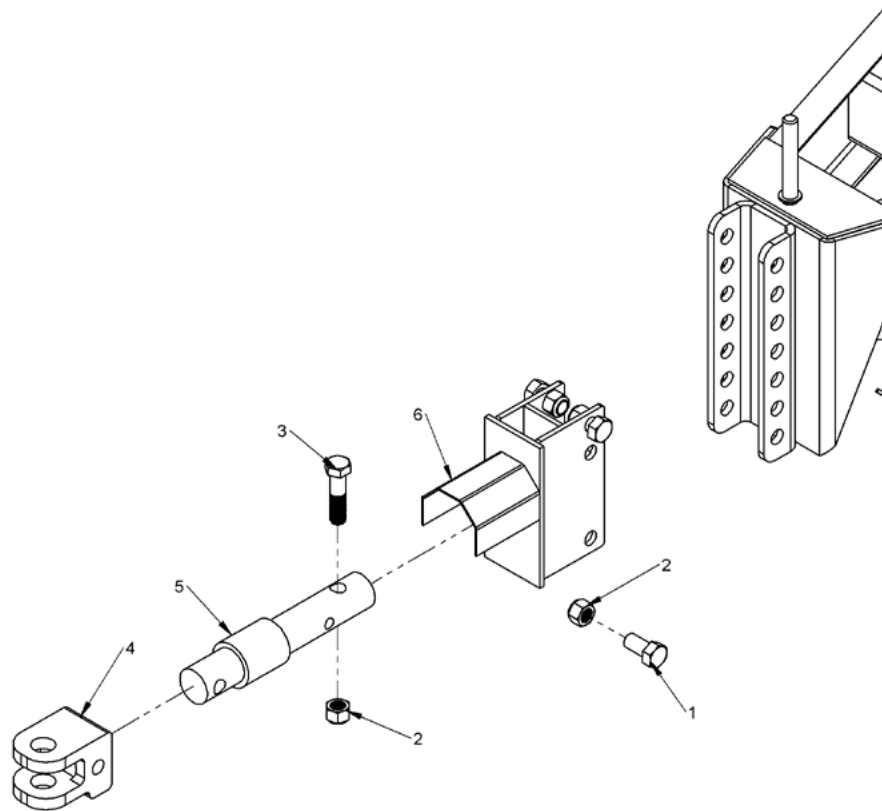
1	Hitch Assembly Options
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Hitch Assembly Options



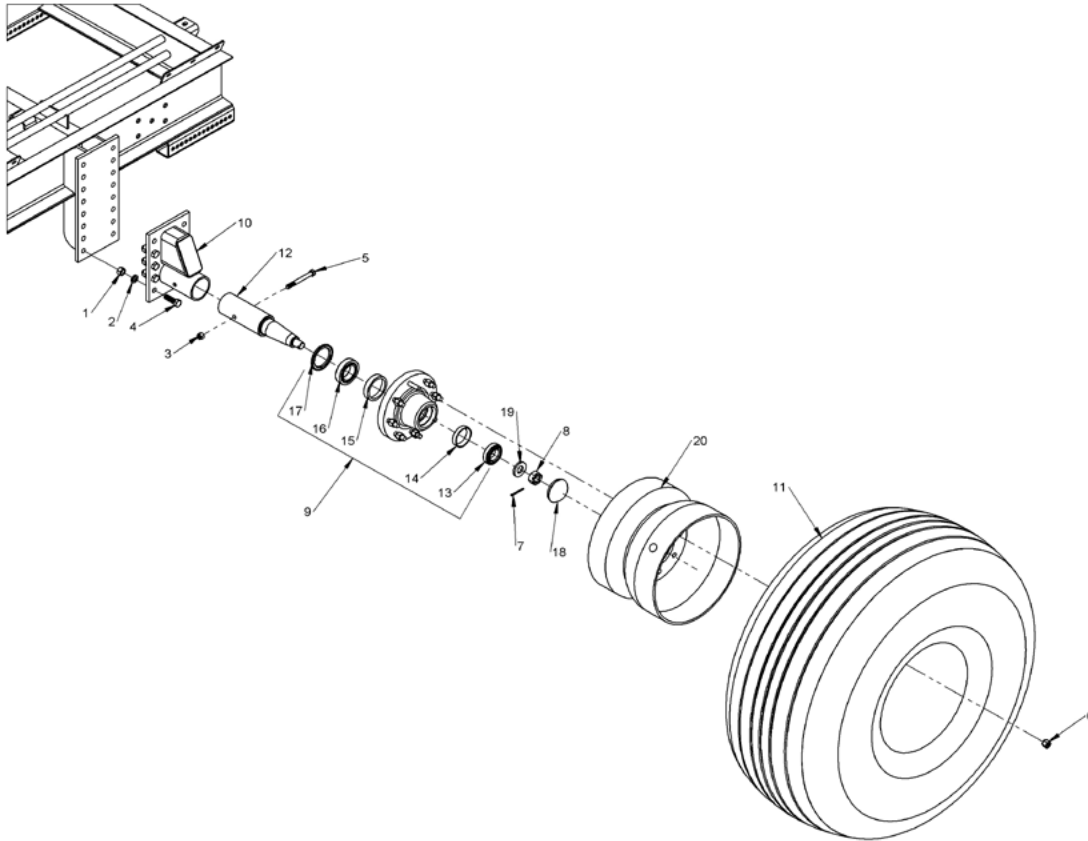
Ref#	Description	Part#	Qty
1	Hex Head Bolt G8, 1-8 x 6-1/2"	000791	2
2	Nylon Lock Nut, 1-8	001012	2
3	Pintle Hitch, Perfect Hitch Opt.	896285	1
4	Clevis Hitch Attachment	896309	1
5	Hitch Coupler Adaptor (Kit)	896336	1
6	Bull Pull Swivel Hitch	896215	1
7	Grade 5 Bolt, CTD	896429	1
8	Neoprene Cushion	896427	2
9	Top Plate	896426	1
10	V-Block	896428	1
11	Grade 8 Bolt, CTD	896430	1
12	Hex Nut, CTD	896431	1

Hitch Assembly (Scale Option)



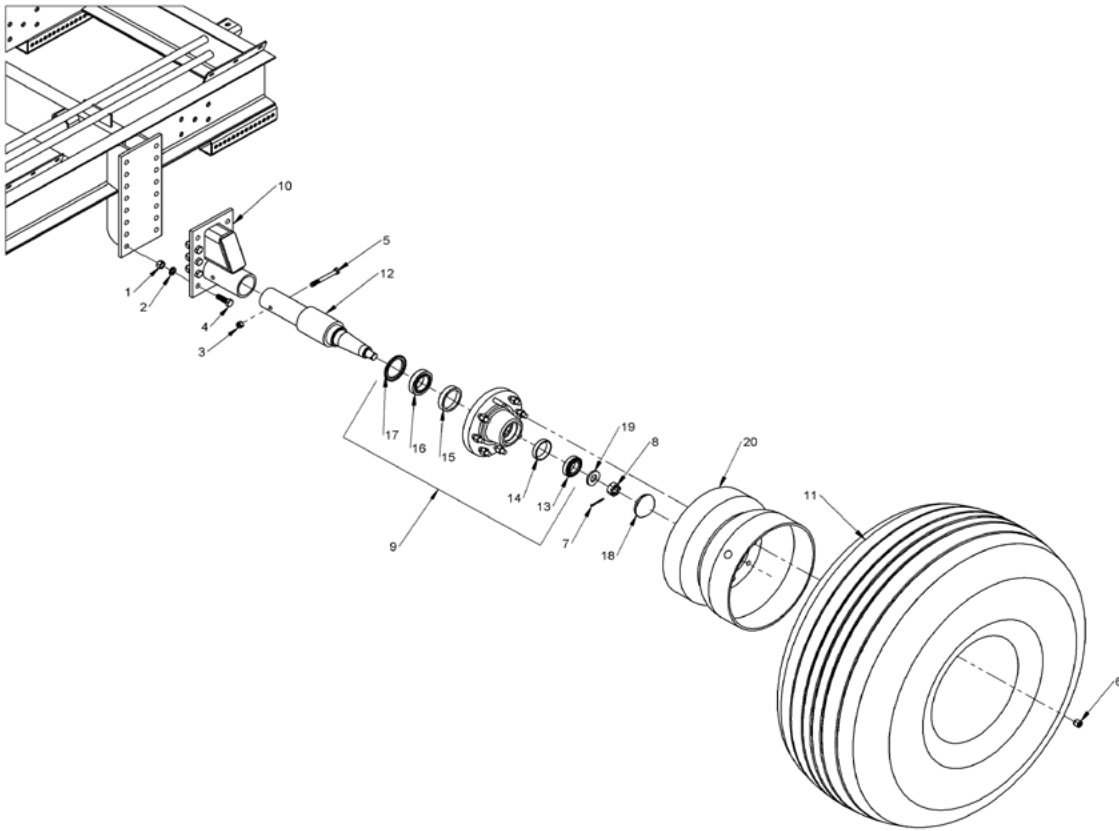
Ref#	Description	Part#	Qty
1	Hex Head Bolt G8, 1-8 x2	000779	4
2	Nylon Lock Nut, 1-8	001012	5
3	Hex Head Bolt G8, 1-8 x2	000783	1
4	Clevis Hitch Attachment w/ Hardware	896307	1
5	Hitch Weigh Bar	896305	1
6	Weigh Bar Reciever, Bolt-On	896290	1

Axle Assembly



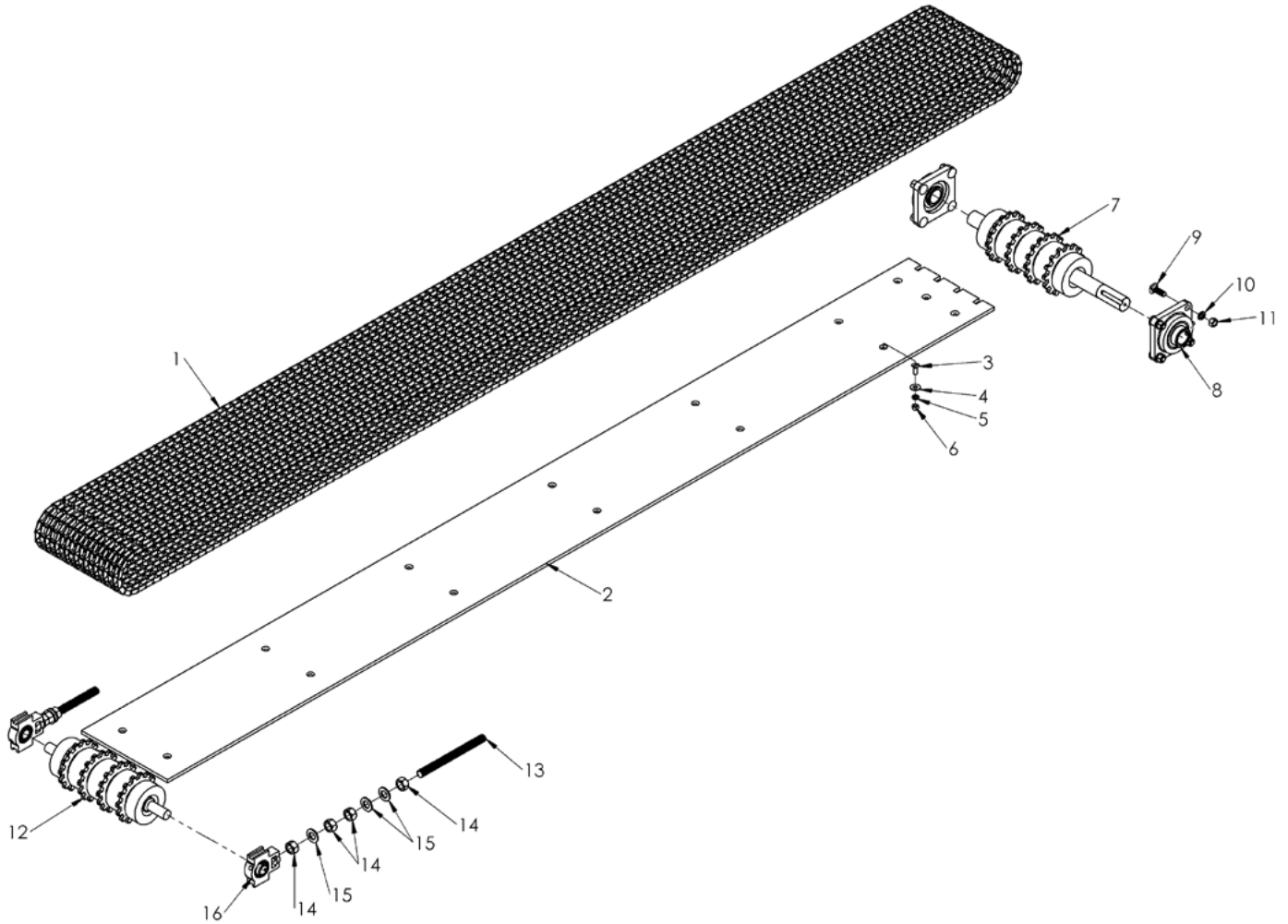
Ref#	Description	Part#	Qty
1	5/8" Hex Nut	000970	16
2	5/8" Lock Washer	000860	16
3	3/8" Nylon Lock Nut	003000	2
4	5/8" x 2" Hex Head Bolt	000615	16
5	3/8" x 4-1/2" Hex Head Bolt	000500	2
6	Lug Nut, 5/8"	300278	16
7	5/32 x 1-3/4 Cotter Pin	300282	2
8	Castle Nut	300275	2
9	Complete Hub Assembly, 75-8	830045	2
10	Spindle Bracket Assembly	801403	2
11	Tire, 10 Ply, 21.5L x 16.1	830258	2
12	Spindle, 3" x 14", 75-8 Hub	890439	2
13	Outer Bearing	300397	2
14	Outer Race	300395	2
15	Inner Race	300391	2
16	Outer Race	300392	2
17	Grease Seal	890587	2
18	Hub Cap	300393	2
19	Hub Washer	890585	2
20	Wheel, 16.1 x 16, 8 Bolt	830047	2

Axle Assembly (Scale Option)



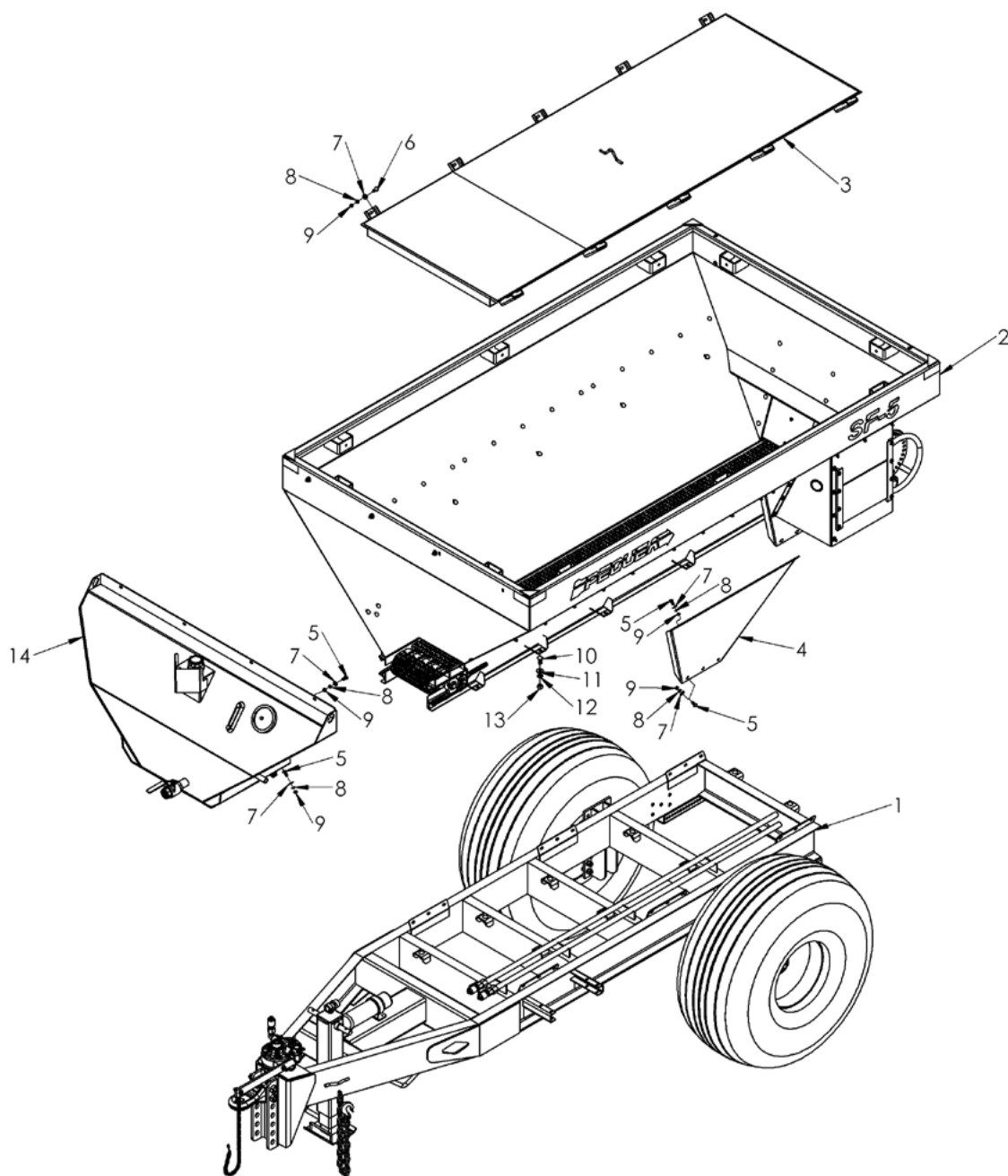
Ref#	Description	Part#	Qty
1	5/8" Hex Nut	000970	16
2	5/8" Lock Washer	000860	16
3	3/8" Nylon Lock Nut	003000	2
4	5/8" x 2" Hex Head Bolt	000615	16
5	3/8" x 4-1/2" Hex Head Bolt	000500	2
6	Lug Nut, 5/8"	300278	16
7	5/32 x 1-3/4 Cotter Pin	300282	2
8	Castle Nut	300275	2
9	Complete Hub Assembly, 75-8	830045	2
10	Spindle Bracket Assembly, Weigh Bar	896298	2
11	Tire, 10 Ply, 21.5L x 16.1	830258	2
12	Spindle Weigh Bar, 2.875 x 19.84	896306	2
13	Outer Bearing	300397	2
14	Outer Race	300395	2
15	Inner Race	300391	2
16	Outer Race	300392	2
17	Grease Seal	890587	2
18	Hub Cap	300393	2
19	Hub Washer	890585	2
20	Wheel, 16.1 x 16, 8 Bolt	830047	2

Floor & Apron



Ref#	Description	Part#	Qty
1	Stainless Steel Mesh Floor Apron	896041	1
2	3/8" x 12" UHMW Floor Board	896068	1
3	3/8" x 1" Countersunk Bolt, Stainless	000125SS	15
4	3/8" USS Flat Washer, Stainless	001030SS	15
5	3/8" Split Lock Washer, Stainless	000820SS	15
6	3/8" Hex Nut, Stainless	000915SS	15
7	Spur Pulley, Rear	896062	1
8	1-1/2" Shaft, 4 Bolt Flange Bearing	400810	2
9	1/2" x 1-1/2" Carriage Bolt	000155	8
10	1/2" Split Lock Washer	000840	8
11	1/2" Hex Nut	000940	8
12	Spur Pulley, Front	896078	1
13	3/4" x 8-7/8" All-Thread	801175	2
14	3/4" - 10 Hex Nut	000975	8
15	3/4" USS Flat Washer	001086	6
16	1" Take Up Bearing	806106	2

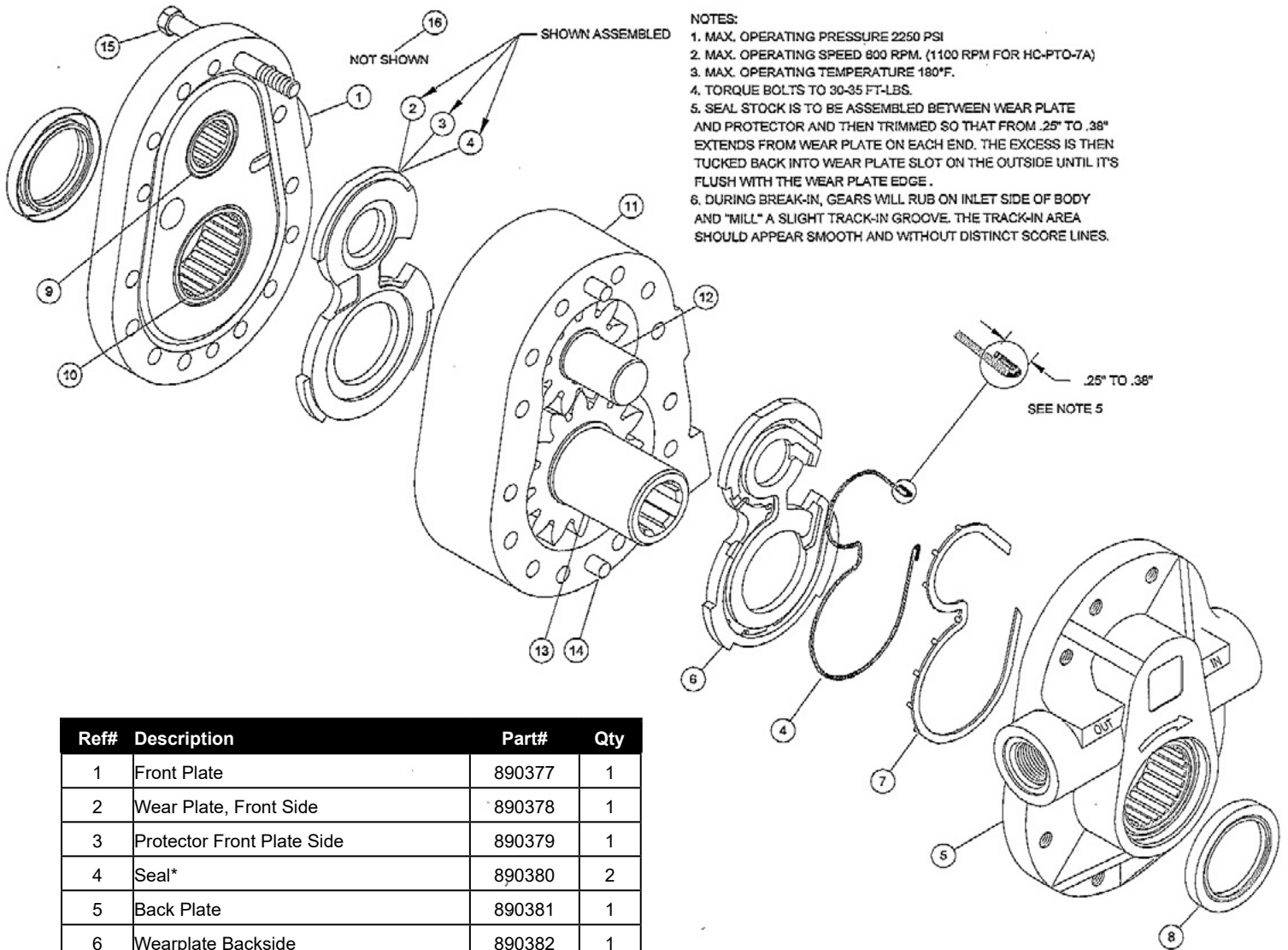
Hopper & Chassis



Ref#	Description	Part#
1	Chassis Frame	896000
2	5 Ton Hopper	896003
3	Stainless Steel Grate Insert	896264
4	Panel Support	896043
5	3/8-16 x 1 Carriage Bolt, Stainless	000125SS
6	3/8-16 x 1-1/4 Carriage Bolt, Stainless	000150SS
7	3/8 Flat Washer, Stainless	001035SS

Ref#	Description	Part#
8	3/8 Lock Washer, Stainless	000820SS
9	3/8-16 Hex Nut, Stainless	000915SS
10	1/2 x 2" Carriage Bolt	000454
11	1/2 Flat Washer	001055
12	1/2 Lock Washer	000840
13	1/2 Hex Nut	000940
14	40 Gal Oil Tank	896125

Pump Assembly



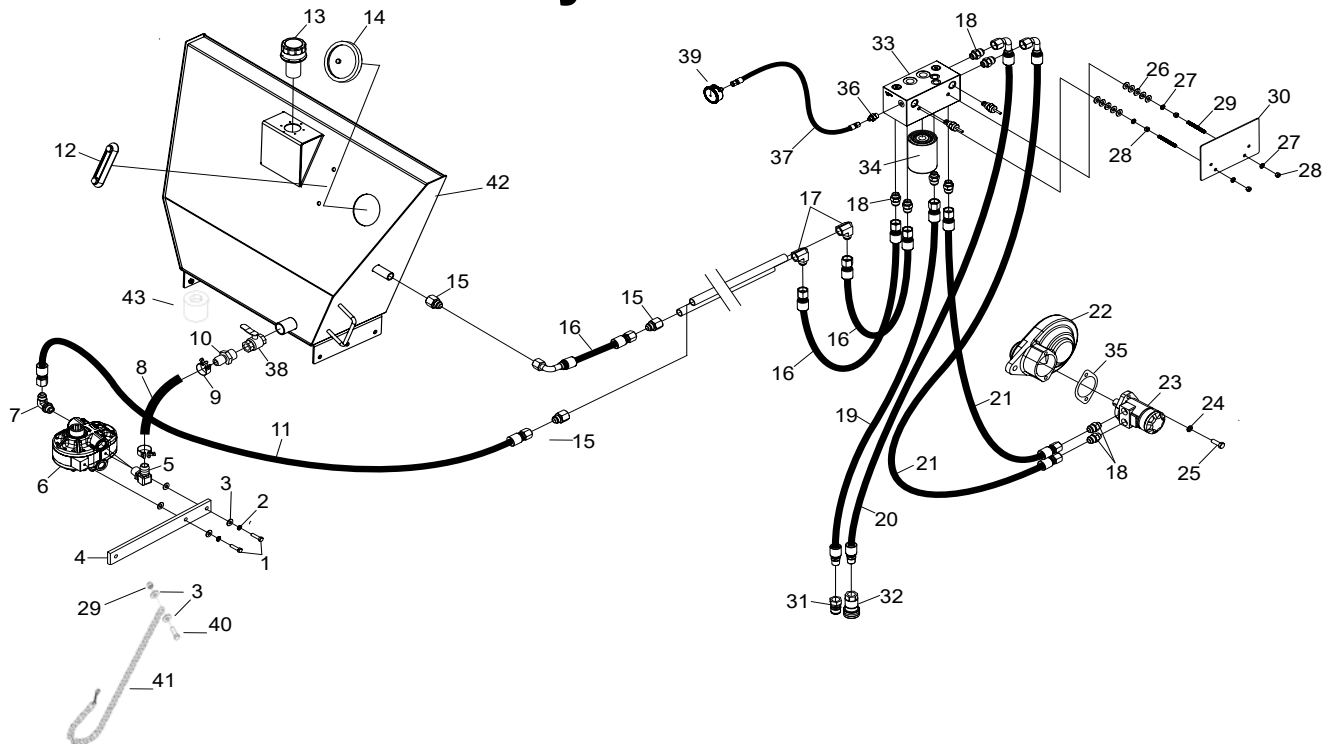
NOTES:

1. MAX. OPERATING PRESSURE 2250 PSI
2. MAX. OPERATING SPEED 800 RPM. (1100 RPM FOR HC-PTO-7A)
3. MAX. OPERATING TEMPERATURE 180°F.
4. TORQUE BOLTS TO 30-35 FT-LBS.
5. SEAL STOCK IS TO BE ASSEMBLED BETWEEN WEAR PLATE AND PROTECTOR AND THEN TRIMMED SO THAT FROM .25\" TO .38\" EXTENDS FROM WEAR PLATE ON EACH END. THE EXCESS IS THEN TUCKED BACK INTO WEAR PLATE SLOT ON THE OUTSIDE UNTIL IT'S FLUSH WITH THE WEAR PLATE EDGE.
6. DURING BREAK-IN, GEARS WILL RUB ON INLET SIDE OF BODY AND "MILL" A SLIGHT TRACK-IN GROOVE. THE TRACK-IN AREA SHOULD APPEAR SMOOTH AND WITHOUT DISTINCT SCORE LINES.

Ref#	Description	Part#	Qty
1	Front Plate	890377	1
2	Wear Plate, Front Side	890378	1
3	Protector Front Plate Side	890379	1
4	Seal*	890380	2
5	Back Plate	890381	1
6	Wearplate Backside	890382	1
7	Protector Back Plate Side*	890383	1
8	Shaft Seal*	890384	2
9	Idler Shaft Bearing	890385	2
10	Drive Shaft Bearing	890386	2
11	Body HC-PTO-2A	890387	1
12	Gear Assembly	890388	1
13	Drive Gear Assembly	890389	1
14	Dowel Pin	890390	2
15	Cap Screw	890391	12
16	Seal Kit	890392	1

Note: All items with * are included in Seal Kit.

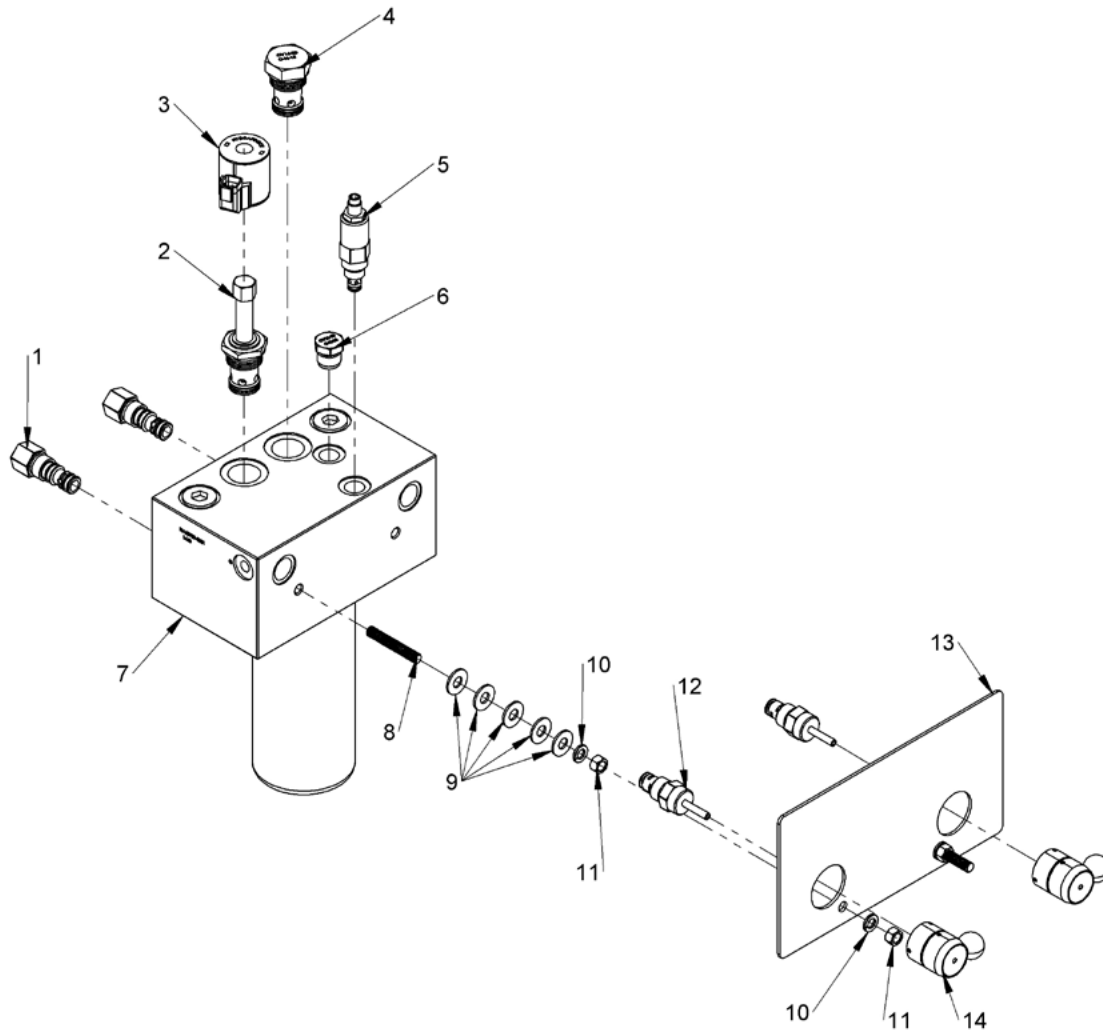
Hydraulics



Ref#	Description	Part#
1	3/8" x 1-1/2" Hex Head Bolt	000280
2	3/8" Split Lock Washer	000820
3	3/8" Flat Washer	001035
4	Pump Holder	801052
5	90 Degree Elbow (20HB x 16MB)	290080
6	PTO Pump	890178
7	90 Degree Elbow (12MJ x 12MB)	290022
8	55" Suction Hose	830680
9	1-1/2" SV Hose Clamp	290169
10	Straight Fitting (20HB x 20MP)	290187
11	95" Hose Assembly (12FJX x 12FJX)	830687
12	Hydraulic Tank Sight Gauge	290054
13	4" Tank Filler Breather Cap	290142
14	6" Tank Door	290044
15	Straight Fitting (12MJ x 12FP)	290019
16	27" Hose Assembly	830336
17	90 Degree Elbow (12MJ x 12FP)	290093
18	Straight Fitting (12MJ x 10MB)	290001
19	58" Hose Assembly (8FJX - 8MP)	896422
20	53" Hose Assembly (8FJX - 8MP)	896421
21	28" Hose Assembly (12FJX x 12FJX)	896420

Ref#	Description	Part#
22	Single Drive Gear Box	891217
23	Drive Motor	896156
24	Lockwasher, 1/2	000840
25	1/2 x 1-1/2 Hex Head Bolt	000435
26	3/8" Flat Washer	001035
27	3/8" Lock Washer	000820
28	3/8" Hex Nut	000915
29	3/8" x 3-1/4" Threaded Rod	902245
30	Manifold Face Plate	896418
31	3/4" Male Ag Coupling	290040
32	3/4" Female Ag Coupling	290041
33	Complete Manifold	890940
34	Oil Filter	890962
35	2 Bolt Flange Gasket	830251
36	Straight Fitting, - #4 MJ x #6 MB	700908
37	16" Hose Assembly (4FJX x 4FJX)	830812
38	1-1/4" Full Ported Brass Ball Valve	830355
39	Pressure Gage	290293
40	3/8 x 1-3/4 Hex Head Bolt	000285
41	PTO Pump Chain Assembly	896283
42	40 Gal Hydraulic Tank	896124
43	#8 Hex Socket Pipe Plug	290025

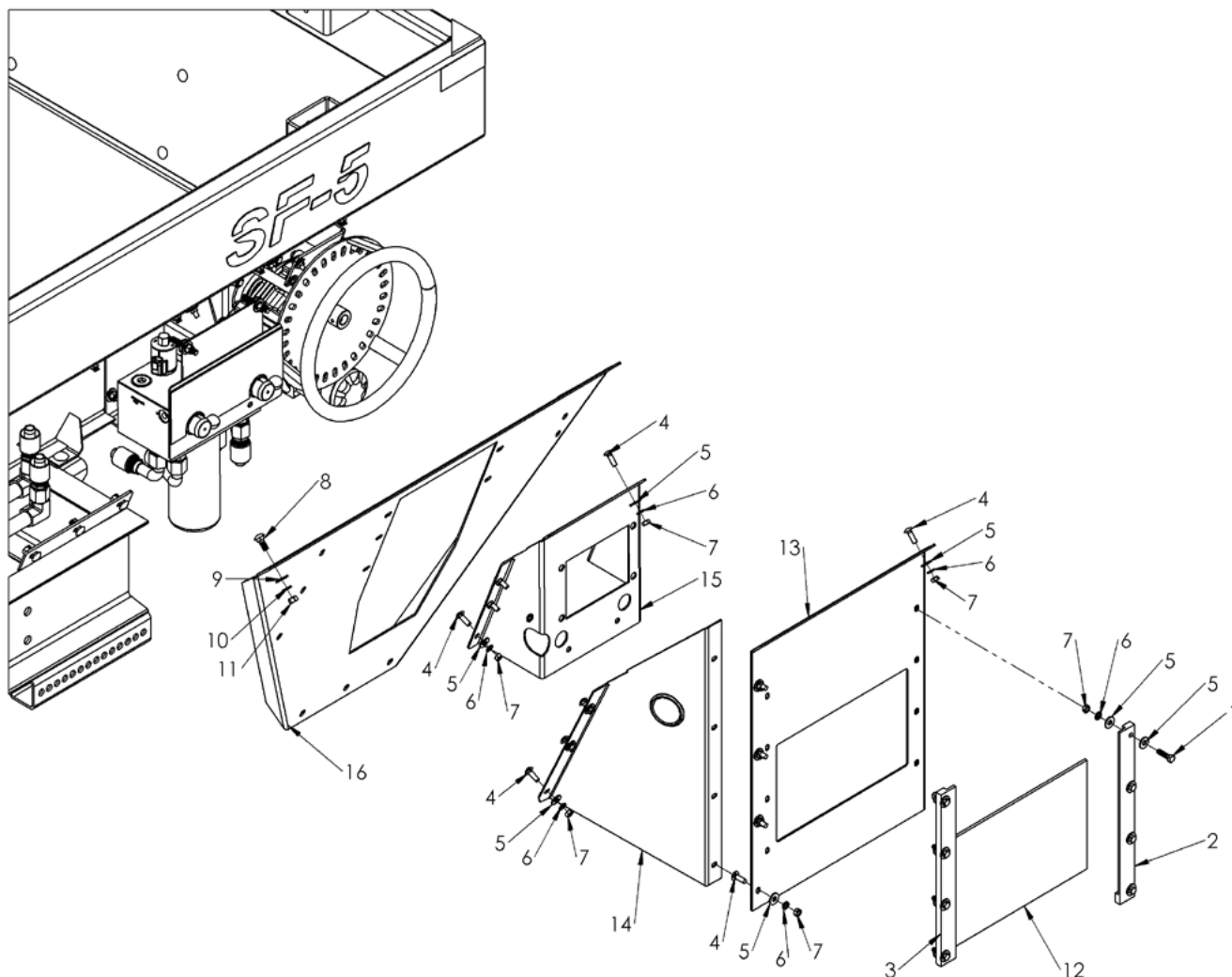
Manifold Components



Ref#	Description	Part#
1	EP10-S35 40 Directional Valve	806140
2	SV16-21 2 Way N/O Poppet Valve	830320
3	Solenoid Valve Coil (4303712)	830325
4	CV16-20-0-N-15 Check Valve	830801
5	Relief Valve	830535
6	CV10-20-0-N-02 Check Valve	830802
7	Hydraulic Manifold with all valves included	890940

Ref#	Description	Part#
8	3/8" x 2-1/2" Threaded Rod	890951
9	3/8" Flat Washer	001035
10	3/8" Lock Washer	000820
11	3/8" Hex Nut	000915
12	MR10-20A Flow Control Valve	806136
13	Manifold Face Plate	896418
14	Control Knob, Detent	896413

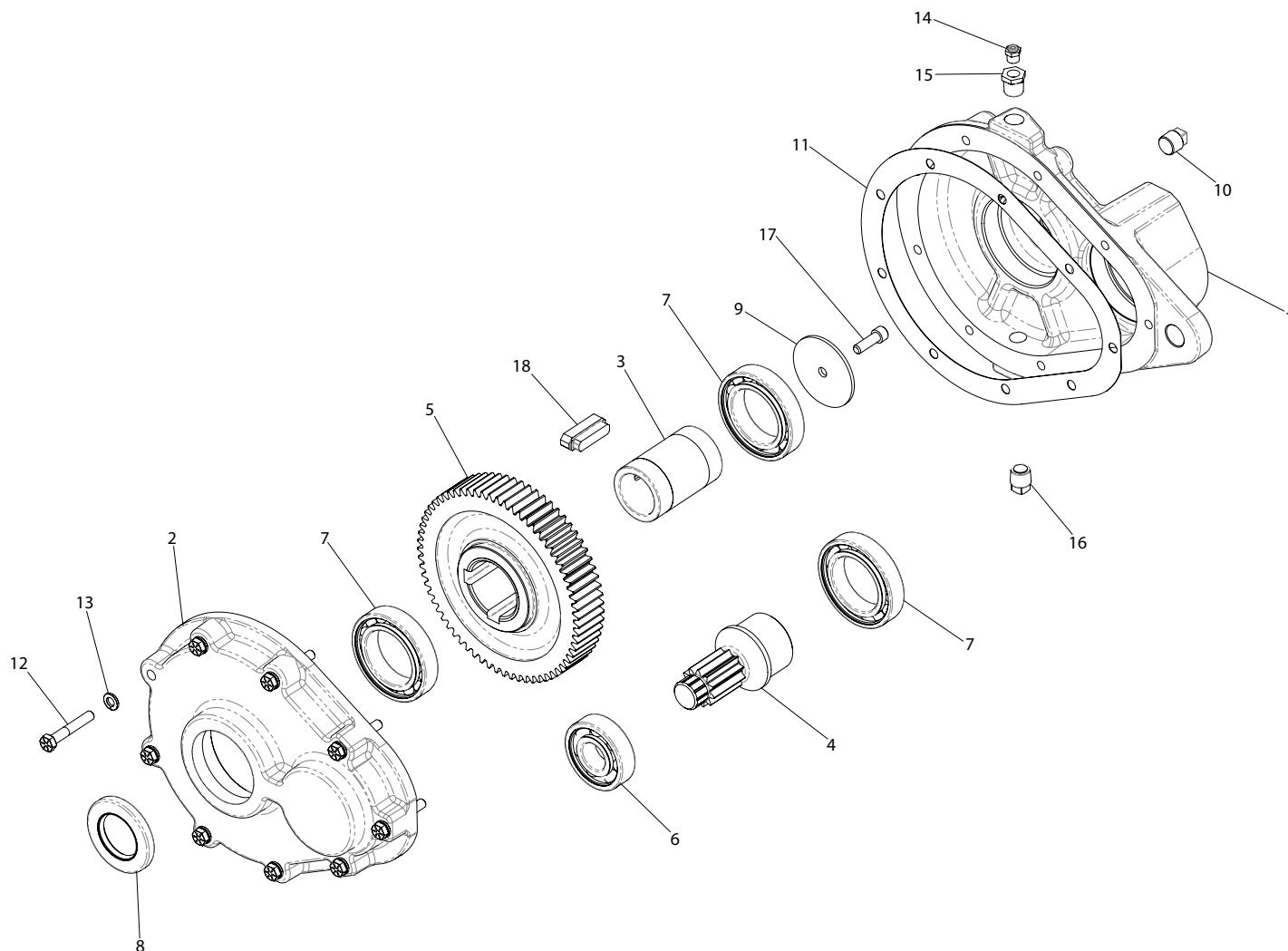
Manifold Cover



Ref#	Description	Part#
1	5/16" x 1-1/4" Hex Head Bolt	000230
2	Manifold Window Slide, Right	890456
3	Manifold Window Slide, Left	890455
4	5/16" x 3/4" Hex Head Bolt	000210
5	5/16" USS Flat Washer	001030
6	5/16" Lock Washer	000810
7	5/16" Hex Nut	000910
8	3/8" x 1" Carriage Bolt, Stainless	000125SS

Ref#	Description	Part#
9	3/8" USS Flat Washer, Stainless	001035SS
10	3/8" Lock Washer, Stainless	000820SS
11	3/8" Hex Nut, Stainless	000915SS
12	Flow Control Cover	890200
13	Manifold Cover Plate	896051
14	Mount, Manifold Protector	896056
15	SF5 Manifold Mount	896054
16	Panel Support, Hyd Controls	896052

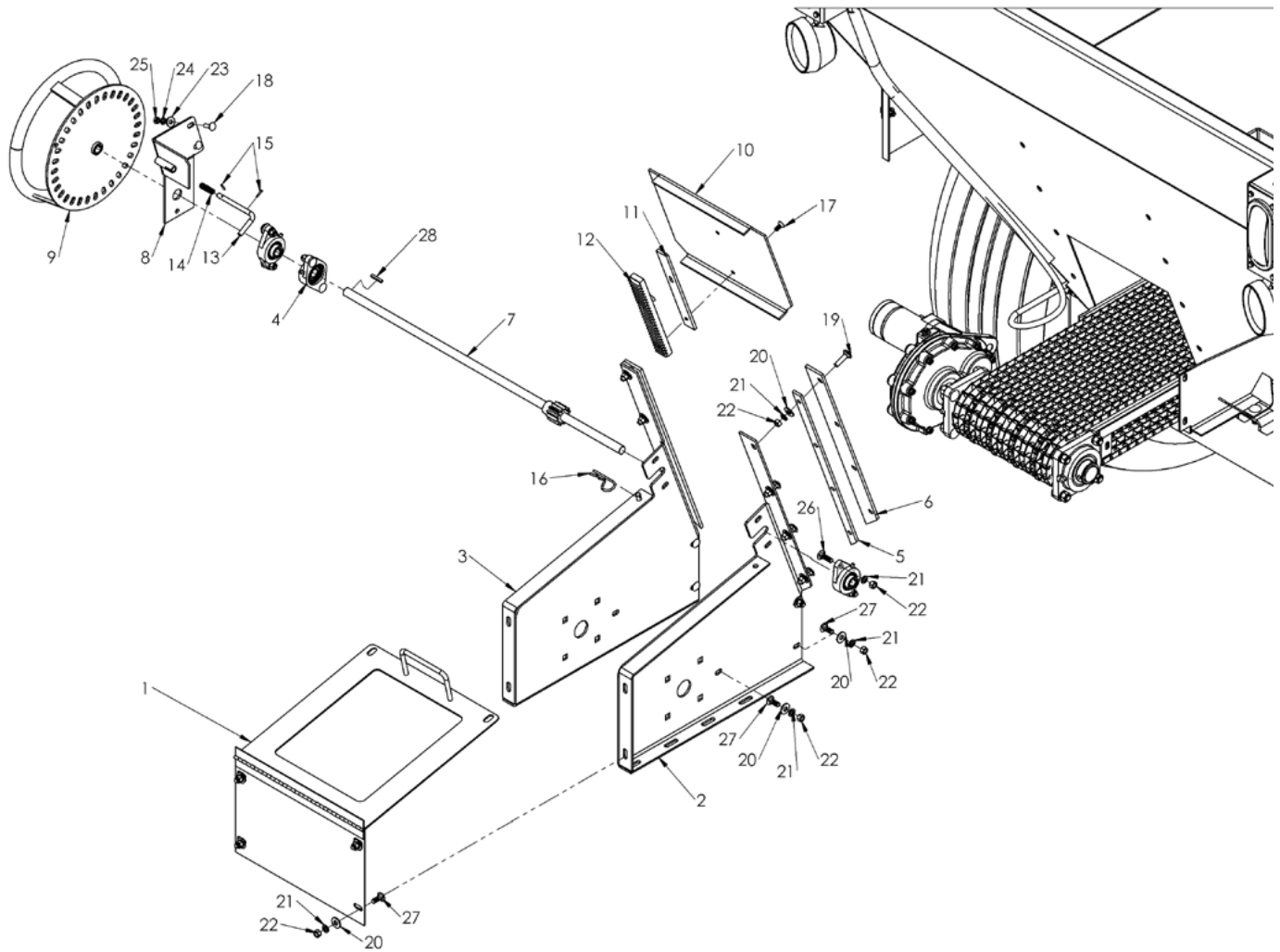
Gearbox Components



Ref#	Description	Part#
1	Outer Gearbox Housing	801419
2	Inner Gearbox Housing	801420
3	Output Shaft Housing	801421
4	Input Gear, 11 Tooth	801422
5	Output Gear, 67 Tooth	801423
6	6305 C3 Ball Bearing	801424
7	6010 C3 Ball Bearing	801425
8	Oil Seal, 1.50-2.623-.313	801426
9	Washer, 2.50 x .34 x .120	801427

Ref#	Description	Part#
10	Square Head Plug, 3/8"-18 NPT w/ 3M	801428
11	Gasket	801429
12	5/16" x 2" Hex Head Bolt, Gr. 8	000122
13	5/16" Lock Washer	000810
14	Breather Plug, 1/8"-27	801430
15	Bushing, 3/8" x 1/8"	801431
16	Square Head Plug, 3/8"-18 NPT	801432
17	5/16" x 1" Bolt, Gr. 8	801434
18	Step Key, .50/.375x.664x1.760	801433

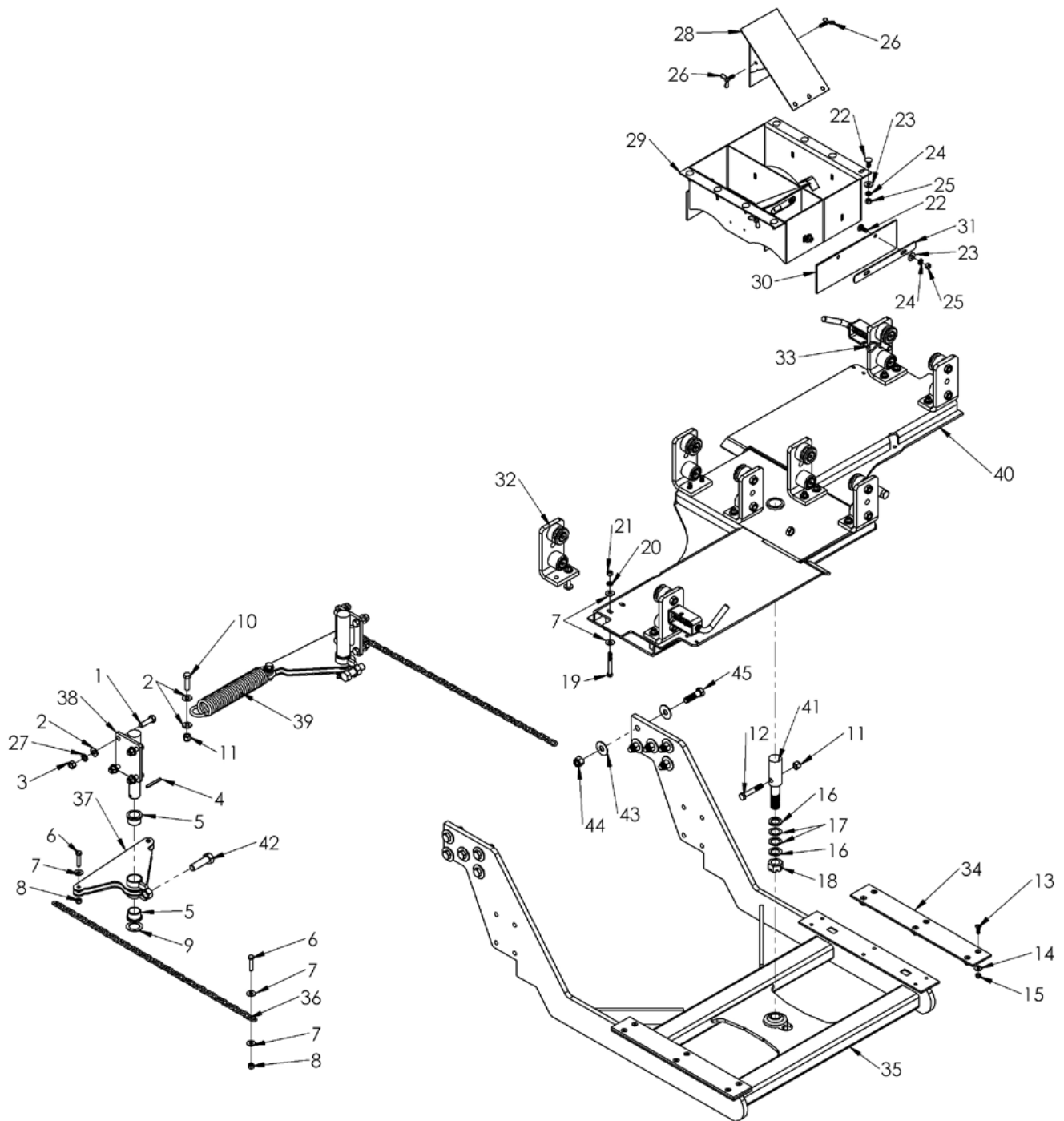
Rear Gate



Ref#	Description	Part#
1	Rear Sprocket Door Assembly	896249
2	Rear Panel, RH	896248
3	Gearbox Mount, Rear LH	896018
4	3/4" Bearing, 2 Bolt	806108
5	Track Spacer	896015
6	Endgate Track, Outer	896014
7	Endgate Shaft	896021
8	Endgate Latch Assembly	896055
9	Endgate Wheel Assembly	830543
10	Gate	896019
11	Gear Rack Shim	806200
12	#8 Gear Rack	806085
13	Latch Pin	806052
14	Endgate Latch Spring	806166

Ref#	Description	Part#
15	1/8 x 3/4 Roll Pin, Stainless Steel	000561
16	Cotter Pin	100216
17	5/16 x 3/4 Countersunk Bolt	000134
18	5/16-18 X 1 Carriage Bolt	000124
19	3/8-16 x 1.50 Carriage Bolt, Stainless	000151SS
20	3/8 Flat Washer, Stainless	001035SS
21	3/8 Lock Washer, Stainless	000820SS
22	3/8 Hex Nut, Stainless	000915SS
23	5/16 Flat Washer	001030
24	5/16 Lock Washer	000810
25	5/16 Hex Nut	000910
26	3/8-16 x 1.25 Carriage Bolt, Stainless	000150SS
27	3/8-16 x 1 Carriage Bolt, Stainless	000125SS
28	Key, 3/16 x 1-1/4	401264

Dual Conveyor Assembly (Base Assy)

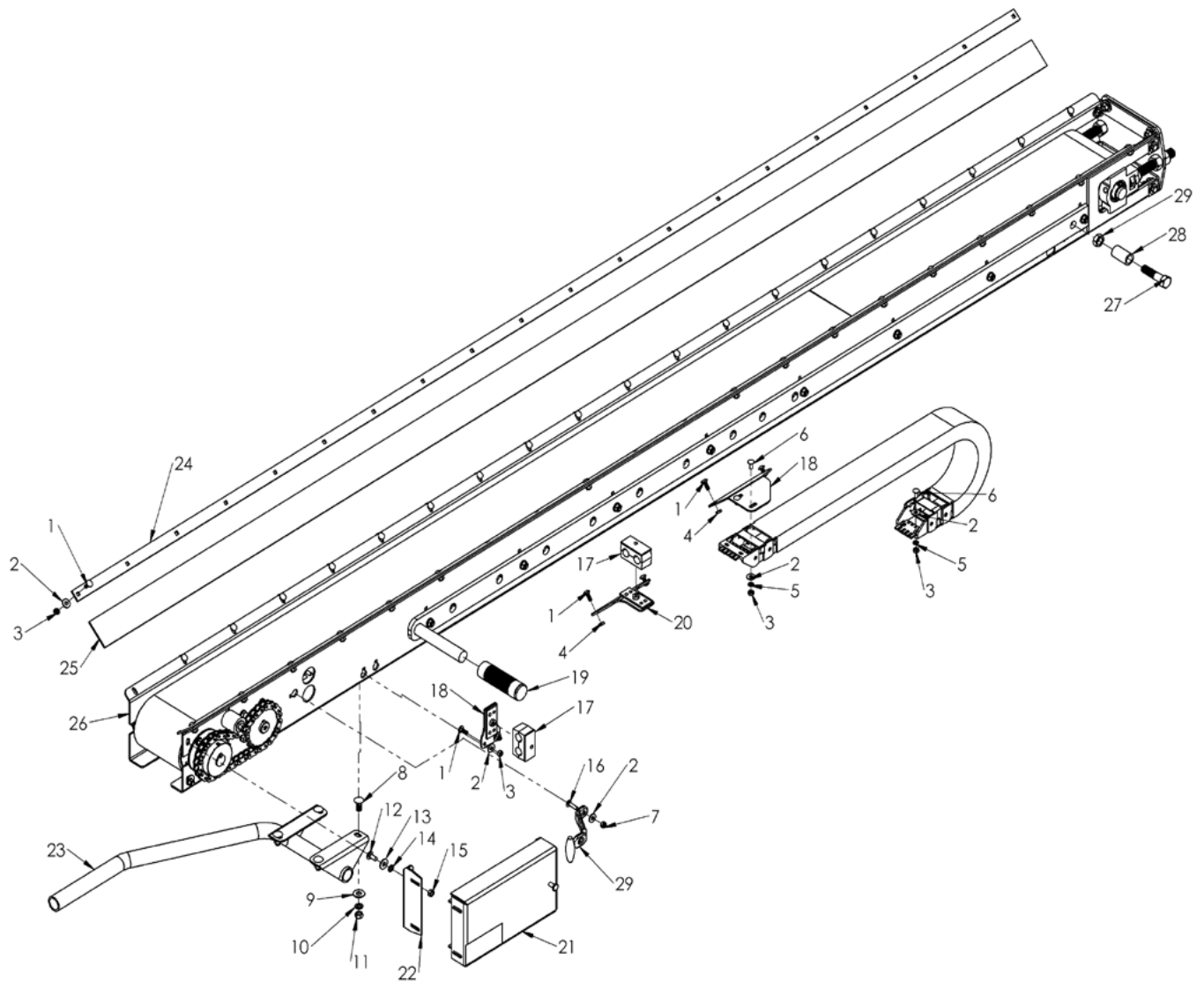


Dual Conveyor Assembly (Base Assy)

Ref#	Description	Part#
1	1/2-13 x 1-3/4 Hex Head Bolt	000445
2	1/2 SAE Flat Washer	001061
3	1/2-13 Hex Nut	000940
4	1/4 x 2-1/4 Roll Pin	502282
5	1.25 ID x 1.50 OD Bushing	703893
6	3/8-16 x 1-3/4 Hex Head Bolt	000285
7	3/8 USS Flat Washer	001035
8	3/8 Nylon Lock Nut	003000
9	1-1/4 x 1-7/8 Machinery Bushing	500185
10	1/2-13 x 1-3/4 Hex Head Bolt	000445
11	1/2" Nylon Locknut	000950
12	1/2-13 x 3" Hex Head Bolt	000470
13	Flat Socket Screw, 5/16 x 1	000166
14	5/16 USS Flat Washer	001030
15	5/16 Nylon Lock Nut	002999
16	1 x 1-1/2 x .25 Machinery Bushing	001006
17	1 x 1-1/2 x .125 Machinery Bushing	001008
18	Castle Nut	300275
19	3/8-16 x 3" Hex Head Bolt	000307
20	3/8 Lock Washer	000820
21	3/8-16 Hex Nut	000915
22	3/8-16 x Carriage Bolt, Stainless	000125SS
23	3/8 USS Flat Washer, Stainless	001035SS

Ref#	Description	Part#
24	3/8 Lock Washer, Stainless	000820SS
25	3/8-16 Hex Nut, Stainless	000915SS
26	5/16-18 Wing Bolt	896208
27	1/2 Lock Washer	000840
28	Slider, Diverter Box	896205
29	Diverter Box Weldment	896080
30	Belting, Diverter Box	896311
31	Belting Bar, Diverter Box	896310
32	Rolling Assembly	896397
33	Rolling Latch Assembly	896388
34	UHMW Slide	896404
35	Frame Conveyor Mount	896086
36	Chain	896243
37	Latch Pivot Triangle Wldmt	896339
38	Latch Pivot Shaft Wldmt	703918
39	Extension Spring	200041
40	Base Plate Weldment	896380
41	Center Swivel Spindle	896406
42	3/4-10 x 2-1/2 Hex Head Bolt	000720
43	5/8 USS Flat Washer	001075
44	5/8-11 Nylon Lock Nut	000972
45	5/8-11 x 2-1/4 Hex Head Bolt	000626

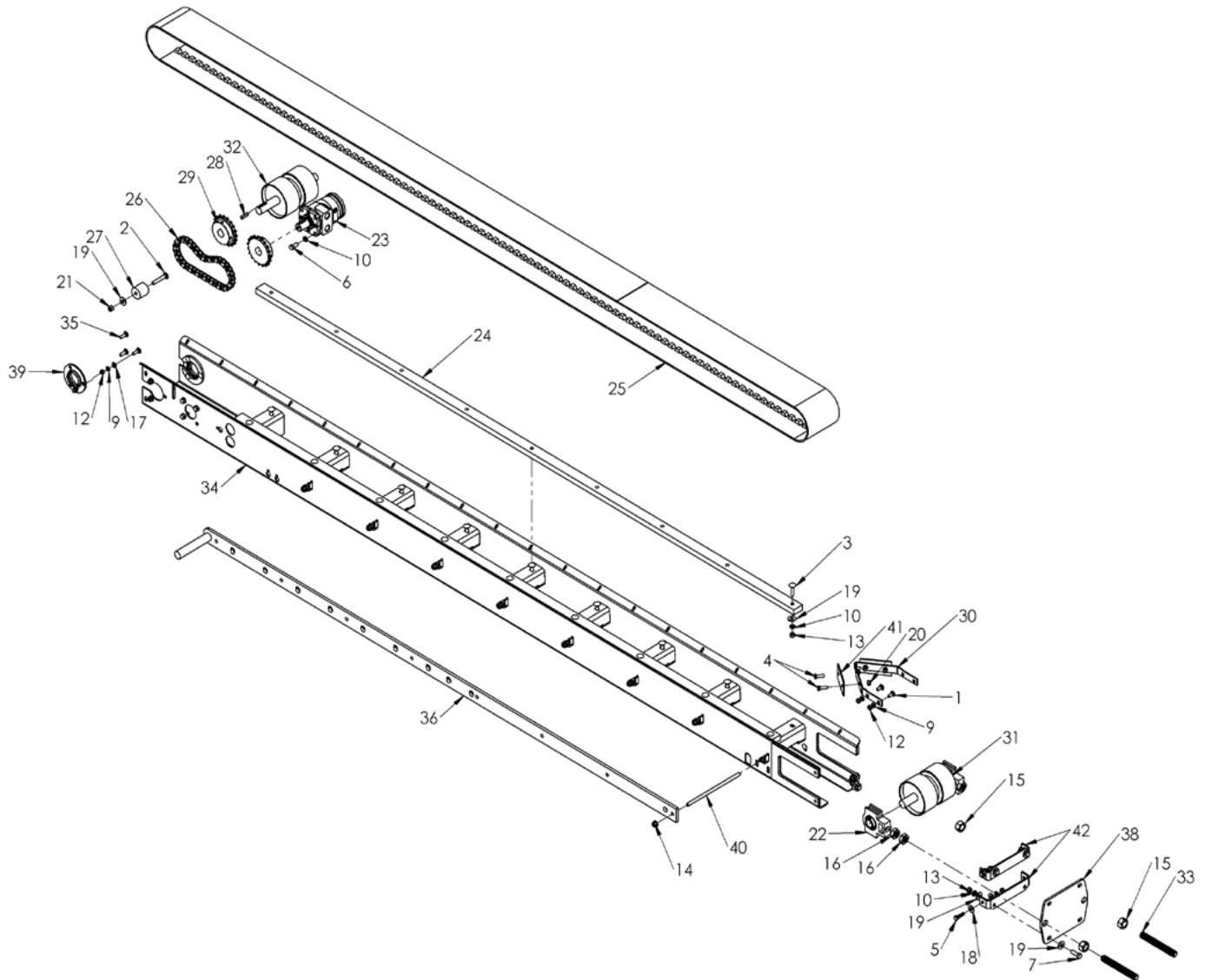
Dual Conveyor Assembly



Dual Conveyor Assembly

Ref#	Description	Part#
1	1/4-20 x 3/4" Carriage Bolt, SS	000161SS
2	1/4 USS Flat Washer, Stainless	001020SS
3	1/4-20 Hex Nut, Stainless	000900SS
4	1/4-20 Lock Jam Nut, Stainless	003003SS
5	1/4 Lock Washer, Stainless	000805SS
6	1/4-20 x 1 Carriage Bolt, Stainless	000159SS
7	1/4-20 Nylon Lock Nut, Stainless	003001SS
8	3/8-16 x 1 Carriage Bolt, Stainless	000125SS
9	3/8 USS Flat Washer, Stainless	001035SS
10	3/8 Lock Washer, Stainless	000820SS
11	3/8-16 Hex Nut, Stainless	000915SS
12	5/16-18 x 3/4 Carriage Bolt, Stainless	000121SS
13	5/16 USS Flat Washer, Stainless	001030SS
14	5/16 Lock Washer, Stainless	000810SS
15	5/16-18 Hex Nut, Stainless	000910SS
16	3/8-16 x 2-1/4 Carriage Bolt, Stainless	000131SS
17	1/2" Hose Clamp	896415
18	Hose Track Upper Holder	896366
19	Rubber Handle	896405
20	Middle Hose Holder	896357
21	Shield Weldment	896386
22	Shield Bracket	896387
23	Guard Weldment Left	896400
24	Belting Bar	896100
25	Rubber Skirt, Conveyor	896101
26	Conveyor Assembly	896356
27	5/8-11 x 2-1/2 Hex Head Bolt	000620
28	Stop Tube	896365
29	5/8 Hex Jam Nut	000681

Dual Conveyor Assembly (Belting)

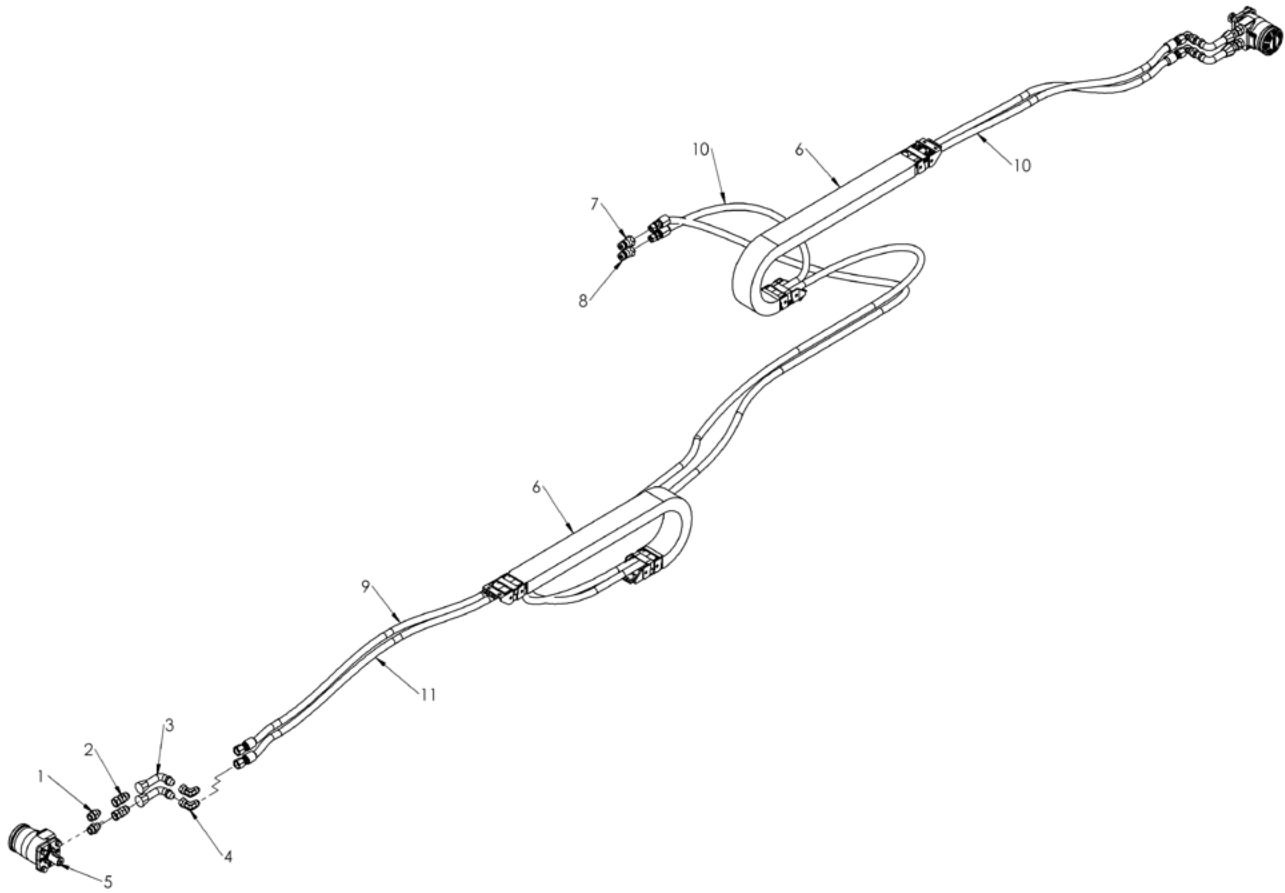


Dual Conveyor Assembly (Belting)

Ref#	Description	Part#	Qty
1	5/16-18 X .75 CARRIAGE BOLT, Stainless	000121SS	4
2	3/8 x 2-1/4 Carriage Bolt	000131	1
3	3/8-16 x 2-1/2 Carriage Bolt	000151	18
4	5/16 x 1 HH Bolt, Plated	000221	4
5	5/16-18 x 1-1/4 Hex Head Bolt, plated	000230	4
6	3/8-16 x .875 HH Bolt Zinc	000250	4
7	3/8-16 x 1.25 HH Bolt Zinc	000275	4
8	5/16 Lock Washer	000810	4
9	5/16 Lock Washer, Stainless	000810SS	10
10	3/8 Split Lock Washer	000820	26
11	5/16-18 HH Nut Zinc	000910	4
12	5/16-18 HEX NUT, Stainless	000910SS	10
13	3/8-16 HEX NUT, Stainless	000915SS	22
14	3/8-16 Serrated Flange Nut, Zinc	000916	16
15	3/4-10 Hex Nut Zinc	000975	4
16	3/4-10 Hex Jam Nut	000976	4
17	5/16 WASHER, Stainless	001022SS	6
18	5/16 USS Flat Washer	001030	14
19	3/8" WASHER, Stainless	001035SS	27
20	5/16-18 Nylon Lock Nut	002999	4
21	3/8-16 S.S. NYLON LOCK NUT	003000SS	1

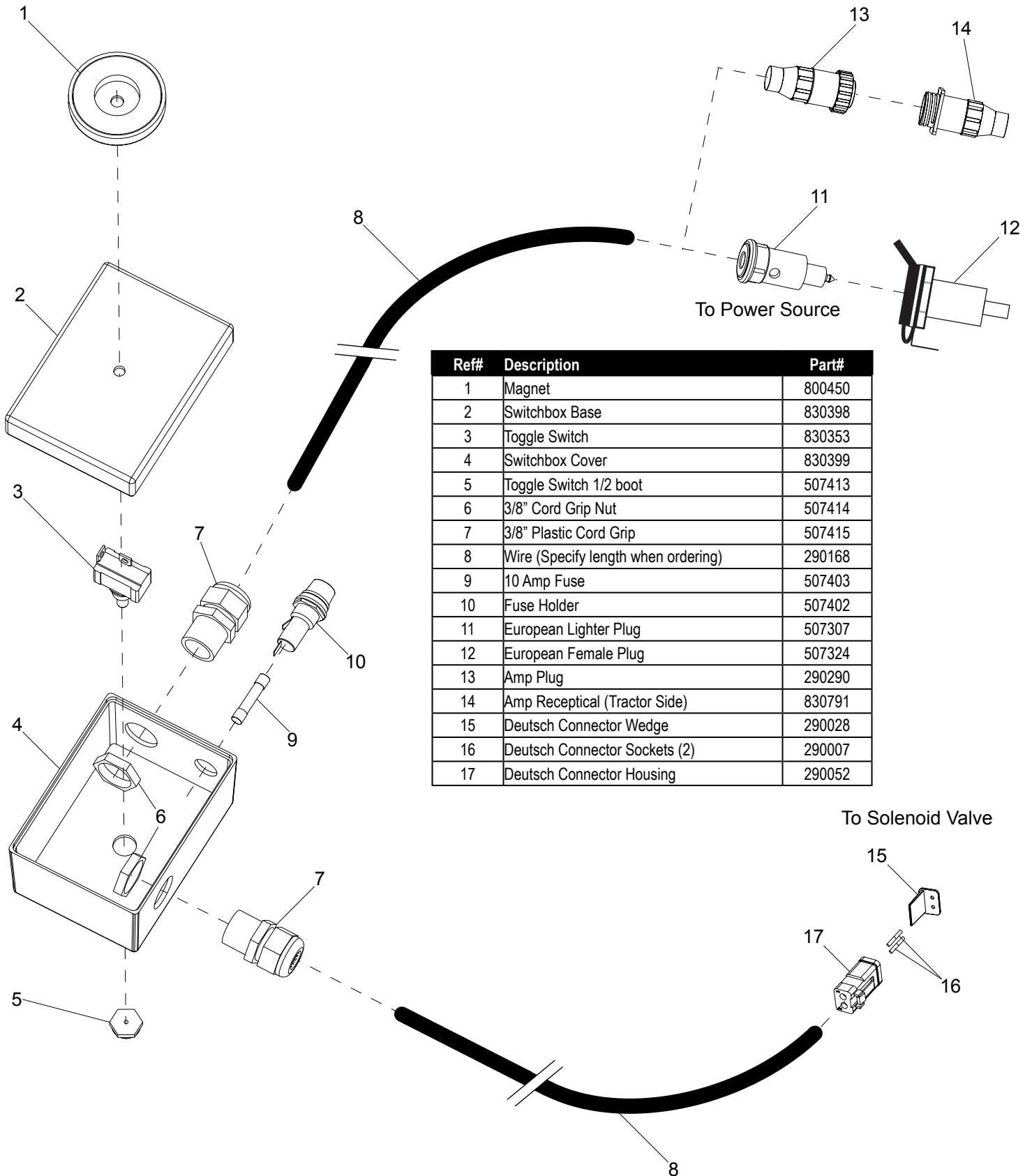
Ref#	Description	Part#	Qty
22	1 INCH TAKE UP BEARING	806106	2
23	101-1011 Motor	890164	1
24	3/4 x 1.5" Poly board	896112	2
25	"5.5"" X 234"" flat top belt, Tybe B V-bottom"	896119	1
26	#50 Roller CHAIN	896120	1
27	UHMW CHAIN IDLER	896132	1
28	.25 x 1.5 Key	896150	1
29	Chain Sprocket, #50-5/8, 19T	896157	2
30	BELT SCRAPER BRACKET	896265	1
31	Conveyor Pulley	896328	1
32	Conveyor Pulley	896330	1
33	3/4 THREADED ROD	896340	2
34	Conveyor Weldment	896350	1
35	BOLT BRACKET	896360	2
36	Rail Outside Weldment	896377	1
37	Slider Bar	896379	1
38	END PLATE, CONVEYOR	896407	1
39	ROUND FLANGE BEARING, 3BOLT	896409	2
40	THREADED CONVEYOR ROD	896411	8
41	RUBBER SCRAPER	896412	2
42	CONVEYOR END BRACKET	896419	2

Dual Conveyor Assembly Hydraulics

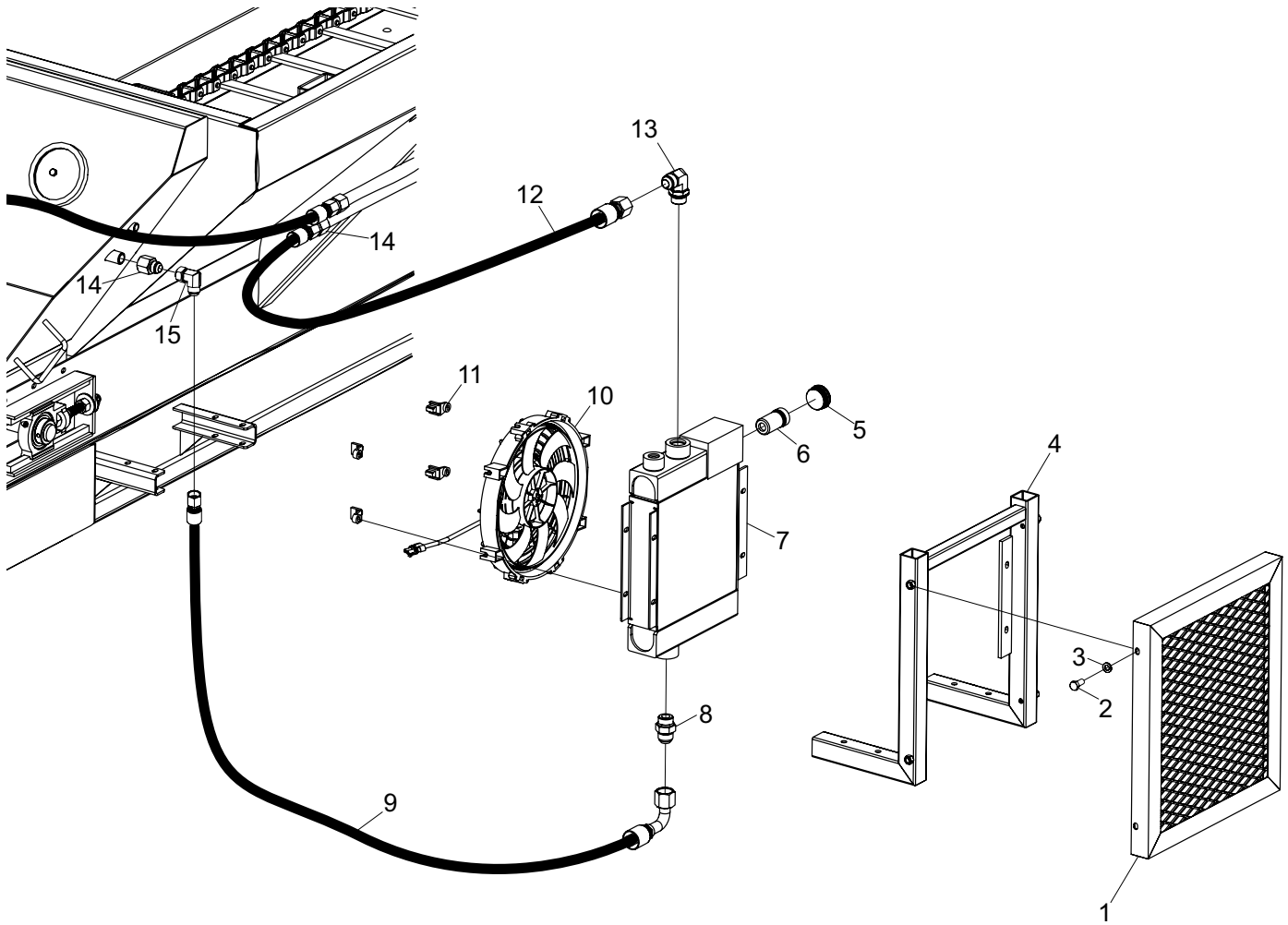


Ref#	Description	Part#	Qty
1	Straight Fitting, 8 MJ x 10 MB	900190	4
2	Fitting, Adaptor 8 FJX x 8 MJ	896165	4
3	Fitting, 90° 8FJX x 8MJ, Long	896166	4
4	Fitting, 90° 8FJX x 8MJ	896168	4
5	101-1011 Hydraulic Motor	890164	2
6	Hose Track, 1/2" Hose x 48" Tavel	896191	2
7	1/2" Male Ag Quick Coupler	290105	1
8	1/2" Female Ag Quick Coupler	290183	1
9	Hose Assy, 207" x 8FJX x 8MP	896195	1
10	Hose Assy, 109" x 8FJX x 8MP	896196	1
11	Hose Assy, 272" x 8FJX x 8FJX	896197	1

Switchbox

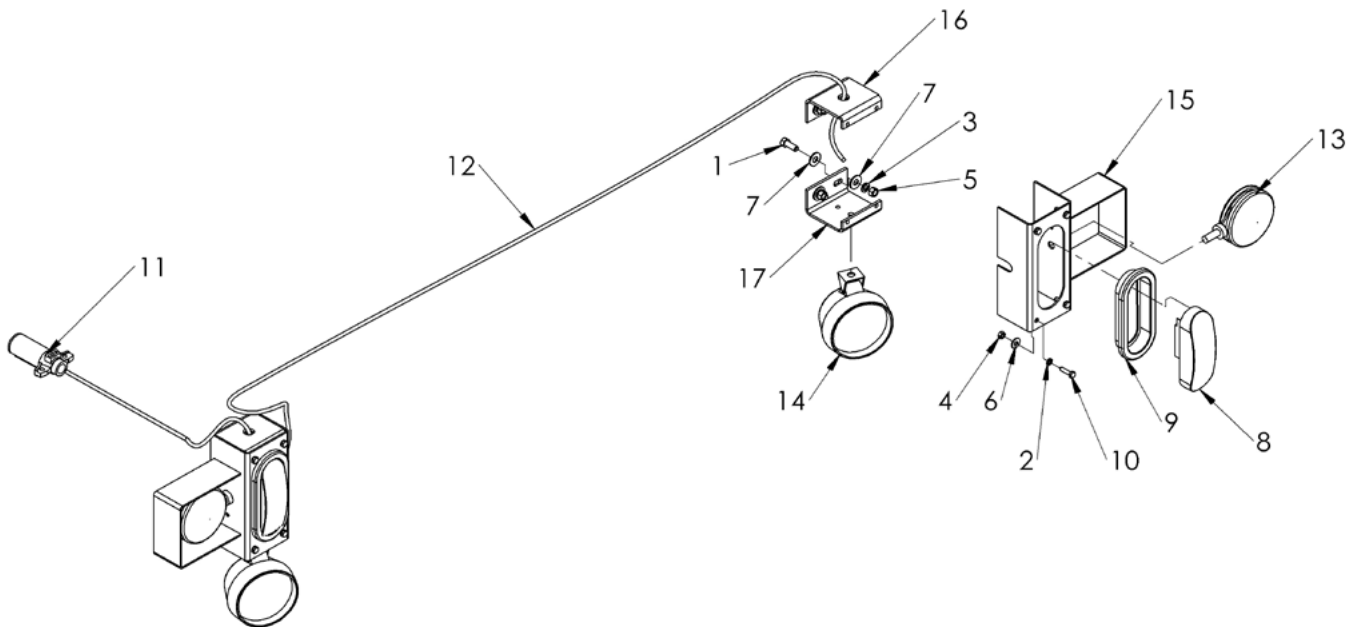


Oil Cooler Option



Ref#	Description	Part#
1	Cooler Grill Weldment	801166
2	5/16-18 x 3/4 Truss Head Bolt, Zinc	000210
3	5/16 Lock Washer, Zinc	000810
4	Cooler Frame Weldment	801160
5	#20 Plug	890459
6	Oil Cooler Check Valve	890462
7	Oil Cooler Core	890463
8	Straight Fitting, #12 MJ x #12 MB	290065
9	45-1/2" Hose Assembly (12FJX90S - 12FJX)	891211
10	Oil Cooler Fan W/Shroud	890460
11	Oil Cooler Fan Mounting Bracket	890461
12	27" Hose Assembly (12FJX - 12FJX)	890357
13	90 Degree Fitting, #12 MJ x #12 MB	290022
14	Straight Fitting, - #12 MJ x #12 FP	290019
15	90 Degree Elbow, - #12 MJ x #12 FJX	290150
16	Complete Oil Cooler	890209

Rear Light Package Option



Ref#	Description	Part#	Qty
1	3/8-16 x 1.000 HH Bolt Zinc, Stainless	000270SS	8
2	1/4 Split Lock Washer, Stainless	000805SS	8
3	3/8 Split Lock Washer, Stainless	000820SS	8
4	1/4-20 Hex Nut Zinc, Stainless	000900SS	8
5	3/8-16 Hex Nut zinc, Stainless	000915SS	8
6	1/4 USS Flat Washer, Stainless	001020SS	8
7	3/8 USS Flat Washer, Stainless	001035SS	16
8	6" Oval Tail Light	100055	2
9	6" Oval Tail Light Grommet	100140	2
10	1/4-20 x 1 HH Bolt, Gr5	100148	8
11	Cole Hersee Plug	100447	1
12	(SF5) Trailer Cable, 6 Contact 14 GA	290253	1
13	Light, Pedistal Mount Dual Face	507164	2
14	Flood Light	507176	2
15	Light Box Weldment	702506	2
16	Light Bracket Mount, top	890523	2
17	Light Bracket Mount, BOTTOM	890524	2