



NITEHAWK[®] SWEEPERS

REV 02022023



PARTS MANUAL RAPTOR II

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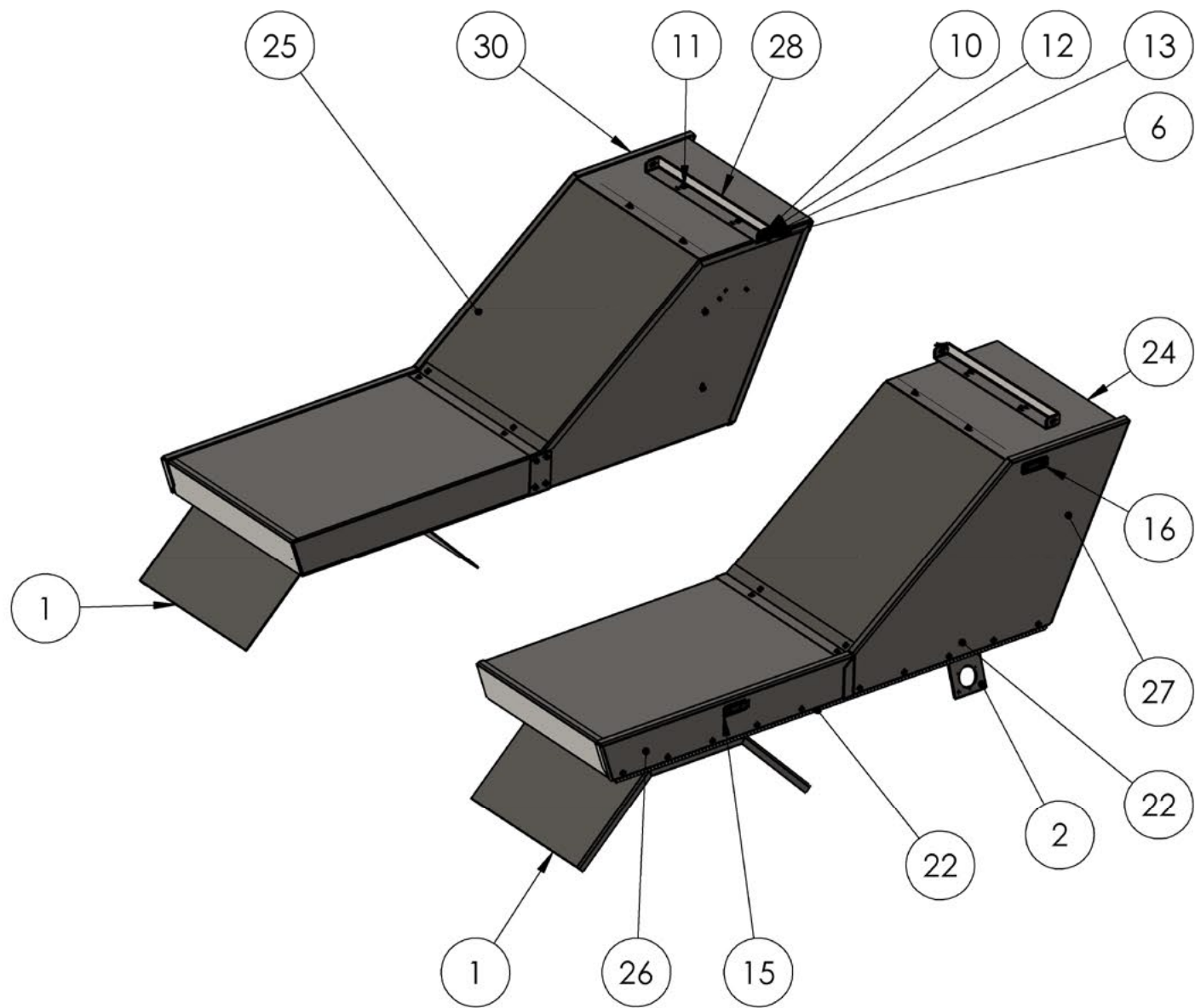
AS-0001 TOOL BOX ASSEMBLY

Item	Part #	Description	Qty
1	DP-1000	FENDER DUAL WHEEL	2
2	DP-2301	FUEL FILL BRACKET PAINTED	1
3	EL-1012	LIGHT RED REFLECTOR	2
4	EL-1023	LIGHT-TOOL BOX DOME LIGHT	2
5	HW-1029	BOLT-10-24 X 2 SS PHILLIPS PAN HEAD	4
6	HW-1037	BOLT-3/8-16 X 1 1/2 HEX CAP SCREW	2
7	HW-1076	BOLT-1/4-20 X 1 HEX CAP SCREW	22
8	HW-1103	BOLT-1/4-20 X 3/4 SS HEX CAP SCREW	24
9	HW-1108	"BOLT-1/4-20 X 1 1/2 SS HEX CAP SCREW"	4
10	HW-1405	FLAT WASHER-3/8 USS ZINC	4
11	HW-1410	FLAT WASHER-1/4 USS	100
12	HW-1505	LOCK WASHER-3/8 ZINC	2
13	HW-1614	NUT-3/8-16 NYLOCK ZINC GR5	2
14	HW-1628	NUT-1/4-20 NYLOCK SS GR5	50
15	HW-1908	LATCH-SOUTHCO NON SEAL	2
16	HW-1909	LATCH-SOUTHCO NON SEAL LOCKING	2
17	HW-1910	TOOLBOX GAS SPRING	2
18	SE-1552	SEAL-EDGE TRIM BULB SEAL 9/32	226 in.
19	SE-1554-D	SEAL - FRAME MNT BULB - DRIVER SIDE	1
20	SE-1554-P	"SEAL - FRAME MNT BULB - PASSENGER SIDE"	1

Item	Part #	Description	Qty
21	TL-1905	TOOL BOX REAR HINGE-DRIVER	1
22	TL-1906	TOOL BOX REAR HINGE-PASSENGER	1
23	TL-1910	5 YARD DRIVER TOOLBOX COMPLETED	1
24	TL-1960	5 YARD PASSENGER TOOLBOX	1
25	TL-2914	"5 YARD FRONT TOOLBOX DOOR - DRIVER"	1
26	TL-2915	TOOLBOX-REAR DOOR-DRIVER-CO	1
27	TL-2919	UPPER TOOLBOX SUPPORT	2
28	TL-2964	TOOLBOX-FRONT DOOR-PASS-CO	1
29	TL-2965	TOOLBOX-REAR DOOR-PASS-CO	1

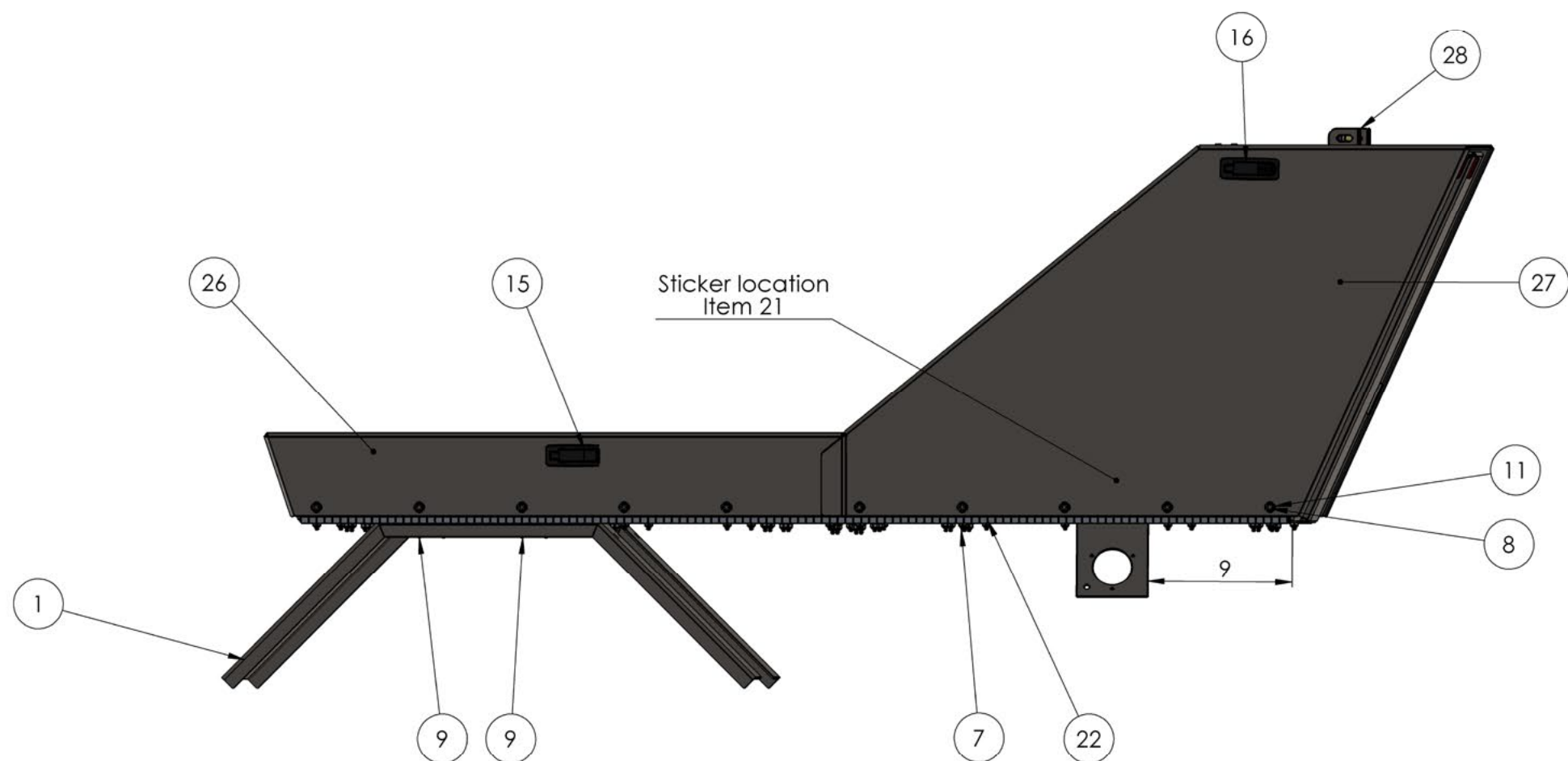
AS-0001 Tool Box Diagrams

Top View - Toolboxes - Diagram 1



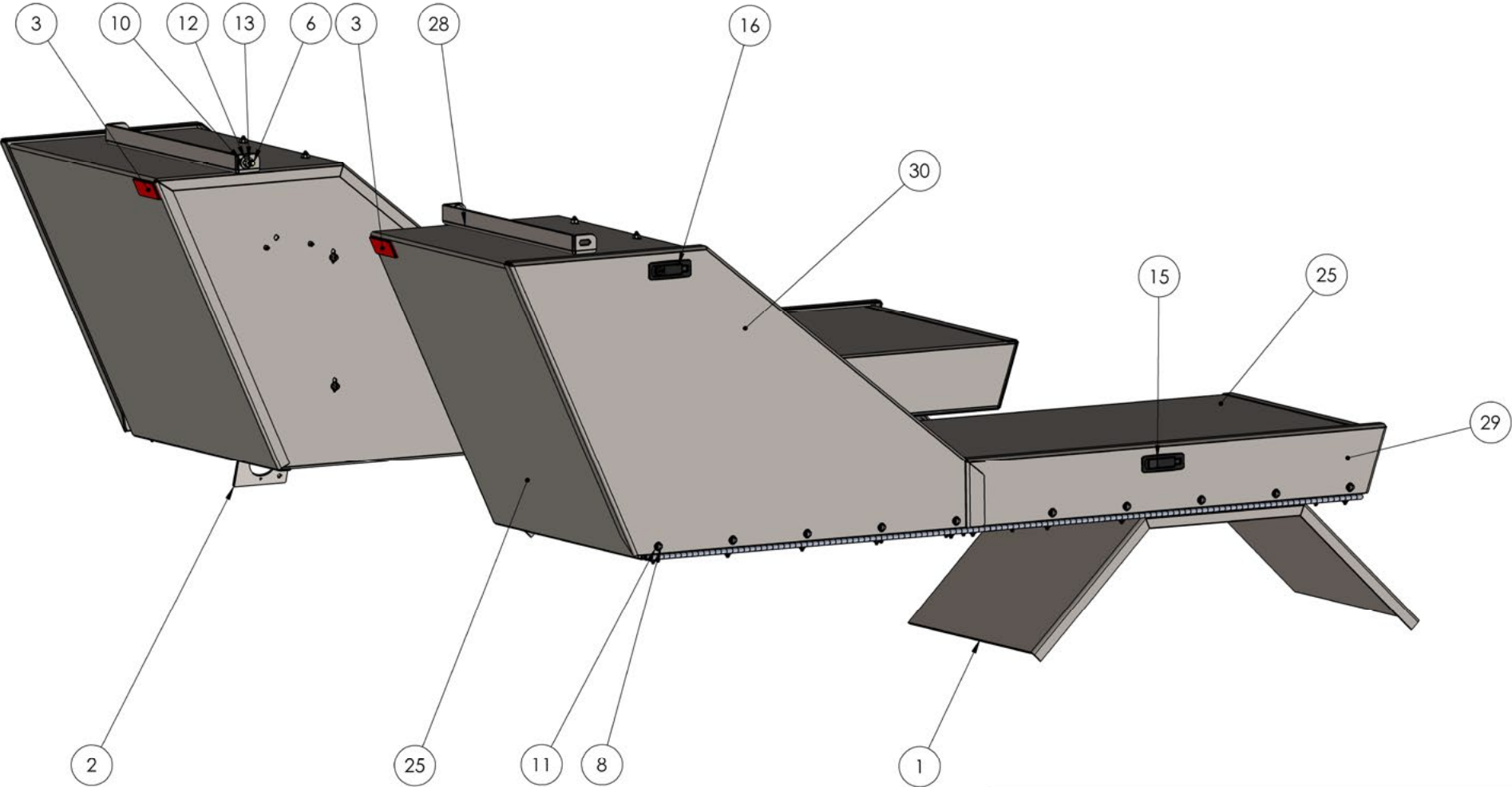
AS-0001 Tool Box Diagrams

Driver Side View - Toolboxes - Diagram 2



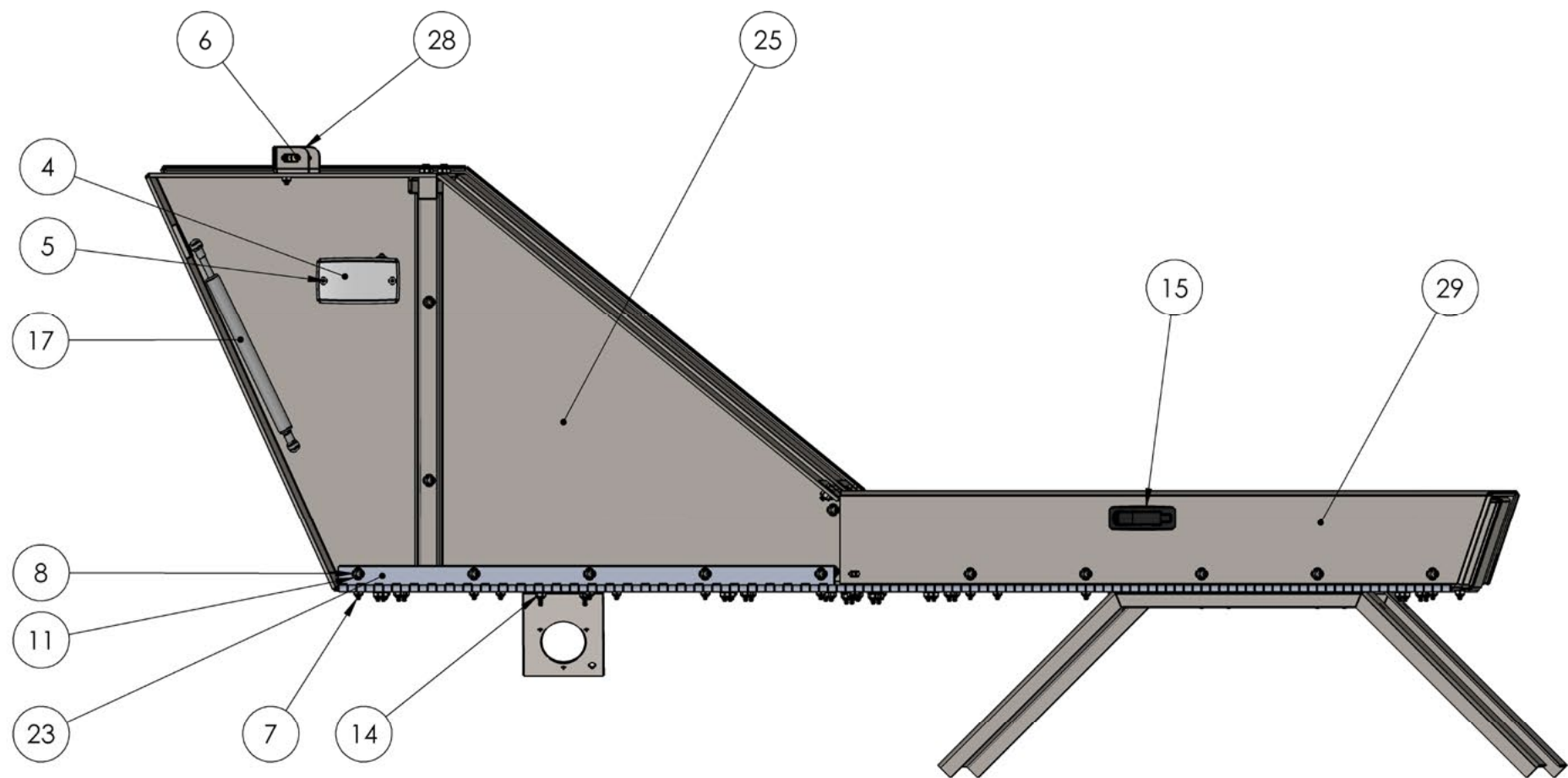
AS-0001 Tool Box Diagrams

Rear View - Toolboxes - Diagram 3



AS-0001 Tool Box Diagrams

Passenger Side View - Toolboxes - Diagram 4



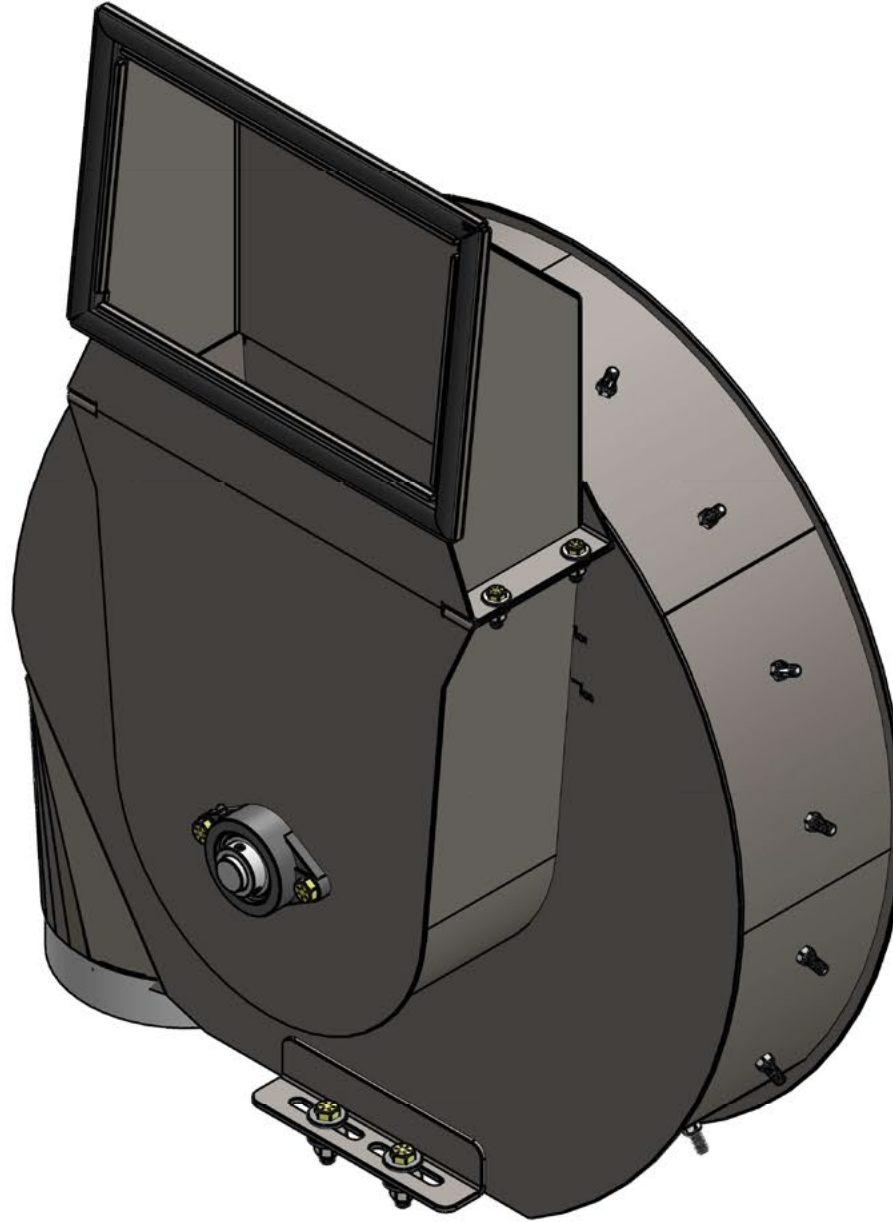
AS-0002 FAN FULL ASSEMBLY

Item	Part #	Description	Qty
1	BT-1101	BEARING-VCJT104 1-1/4" FLANGE	2
2	BT-1851	BOWEX-KEYED COUPLING HALF FAN SIDE	1
3	BT-1853	BOWEX-COUPLING INSERT	1
4	BT-1854	BOWEX-KEYED COUPLE HALF-MOTOR	1
5	BT-1950-1.5	FAN KEY SHAFT	1
6	FN-0010	FAN FLAP RETAINER PLATE	15
7	FN-0175	MOTOR ADAPTER FOR FAN MOTOR MOUNT	1
8	FN-0176	MOTOR ADAPTER COVER PLATE	1
9	FN-0603	FAN HOUSING 24" - FLAP 7.5 X 96	1
10	FN-1005	24 FAN GUT ASSEMBLY BLADE	1
11	FN-1370	FAN HOUSING 24" NO BLOWER TUBE	1
12	FN-1371	24" FAN - FACE PLATE WELDMENT	1
13	FN-1380	FAN HOOD ASSEMBLY	1
14	FT-1513	HYD FITTING MB-MJ 10-12	2
15	FT-1560	HYD FITTING MJ-MB-6-6	1
16	FT-1600	HYD FITTING MJ-FJX-MJ-12-12-12	1

Item	Part #	Description	Qty
17	HW-1002	BOLT-1/2 X 2 S-SCREEN	4
18	HW-1007	BOLT-1/2-13 X 2 HCS GR8	8
19	HW-1038	BOLT 3/8-16-1 1/4 HEX CAP SCREW GR8 Y	4
20	HW-1072	BOLT-3/8-16 X 1 HEX CAP SCREW	2
21	HW-1077	BOLT-10-24 X 3/4 PAN HEAD	4
22	HW-1092	BOLT-38-16 X 1.5 CARRIAGE	15
23	HW-1400	FLAT WASHER-#10	4
24	HW-1402	FLAT WASHER-1/2 USS	8
25	HW-1405	FLAT WASHER-3/8 USS ZINC	16
26	HW-1416	FLAT WASHER-1/2" SAE	4
27	HW-1503	LOCK WASHER-1/2 ZINC	12
28	HW-1505	LOCK WASHER-3/8 ZINC	12
29	HW-1511	LOCK WASHER 3/8 SS	2
30	HW-1603	NUT-1/2-13 NYLOCK ZINC GR5	12
31	HW-1614	NUT-3/8-16 NYLOCK ZINC GR5	12
32	HW-1615	NUT-38-16 STOVER NUT	15
33	HY-1446	MOTOR-CASAPPA CCW GEAR CASE DR	1
34	SE-1305	5 YARD 24 FAN SEAL	1

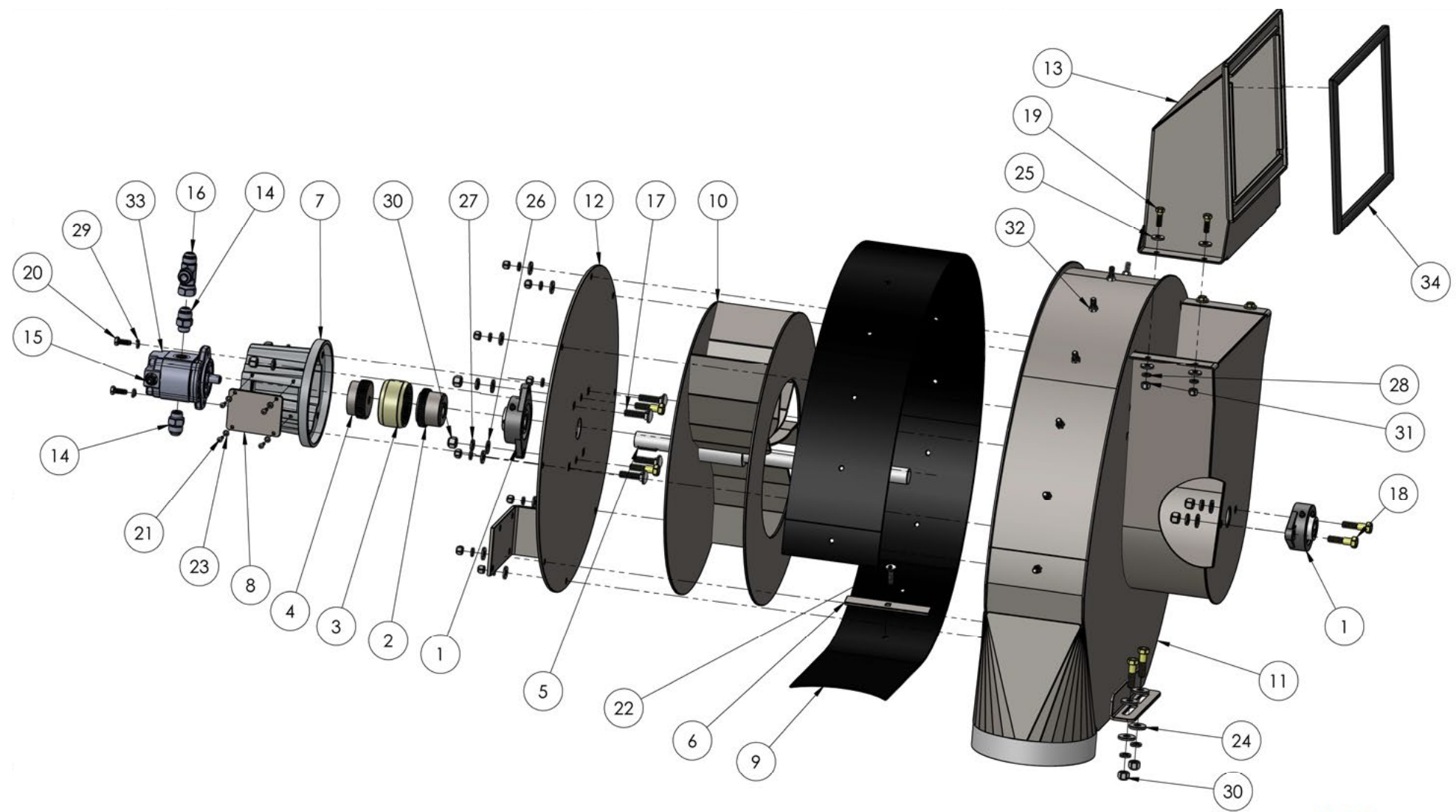
AS-0002 Fan Diagrams

Rear View - Fan Assembly - Diagram 1



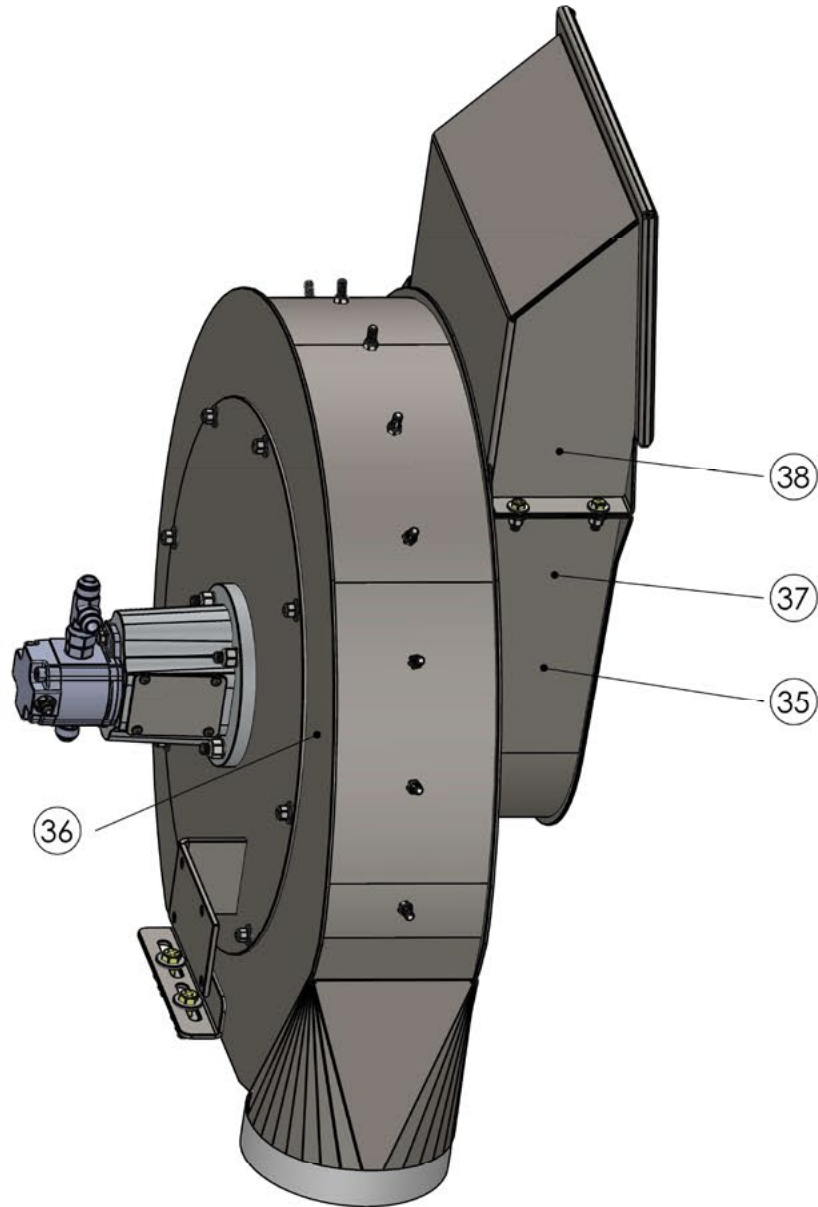
AS-0002 Fan Diagrams

Exploded View - Fan Assembly - Diagram 2



AS-0002 Fan Diagrams

Driver Side View - Fan Assembly - Diagram 3



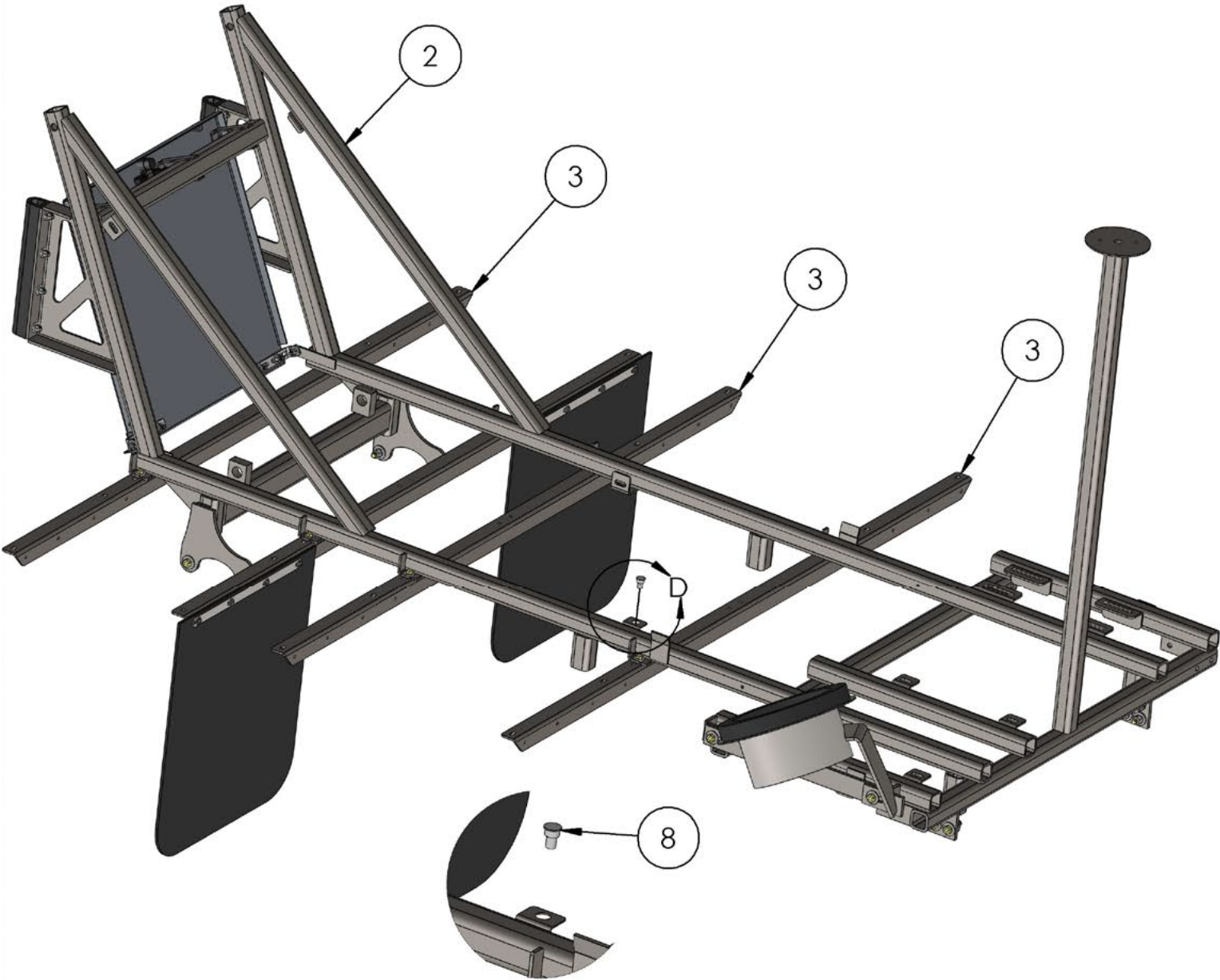
AS-0003 DUMP FRAME ASSEMBLY

Item	Part #	Description	Qty
1	DP-1302	MUD FLAP BRACKET DUAL WHEEL	2 EA
2	DP-2700	5 YARD DUMP FRAME - RAPTOR 2	1 EA
3	DP-2735	DUMP FRAME - TOOLBOX SUPPORT ANGLE	4 EA
4	DP-2920	SEAL HOLDER	1 EA
5	DR-1101	BACK DOOR HINGE BRACKET COATED	2 EA
6	DR-1175	BACK DOOR SS ASSEMBLY	1 EA
7	EL-1385	CABLE TIE MOUNT, BUTTON HEAD	5 EA
8	EL-1876	HOPPER INDICATOR SWITCH - MAGNET	1 EA
9	HW-1007	BOLT-1/2-13 X 2 HCS GR8	10 EA
10	HW-1037	BOLT-3/8-16 X 1 1/2 HEX CAP SCREW	16 EA
11	HW-1074	BOLT-3/8-16 X 1 1/4 SS HCS	6 EA
12	HW-1116	BOLT-1/4-20 X 1 1/4 HCS GR8	8 EA
13	HW-1402	FLAT WASHER-1/2 USS	20 EA
14	HW-1403	FLAT WASHER-1/4 USS ZINC	16 EA
15	HW-1405	FLAT WASHER-3/8 USS ZINC	32 EA
16	HW-1409	FLAT WASHER-3/8 NYLON	4 EA

Item	Part #	Description	Qty
17	HW-1411	FLAT WASHER-3/8 USS SS	12 EA
18	HW-1503	LOCK WASHER-1/2 ZINC	10 EA
19	HW-1505	LOCK WASHER-3/8 ZINC	16 EA
20	HW-1603	NUT-1/2-13 NYLOCK ZINC GR5	10 EA
21	HW-1606	NUT-1/4-20 NYLOCK	8 EA
22	HW-1614	NUT-3/8-16 NYLOCK ZINC GR5	16 EA
23	HW-1629	NUT-3/8-16 NYLOCK SS GR5	6 EA
24	HW-1751	CABLE - 1/8 AIRCRAFT 500'	72 IN
25	HW-1761	CABLE CLIP-1/8 ROPE CLIP	4 EA
26	HW-1909	LATCH-SOUTHCO NON SEAL LOCKING	1 EA
27	IP-1352	REAR VIEW CAMERA RVS-772-2	1 EA
28	IP-1700	MUD FLAP DUAL WHEEL	2 EA
29	SE-0001	BUMPER-2120 "D" STOCK 10'	28 IN
30	SE-1500	SEAL- INTAKE 10" ID NEOPRENE	1 EA
31	ST-1200	STICKER "NITE-HAWK SWEEPERS"	1 EA
32	ST-1203	STICKER "CAUTION"	1 EA

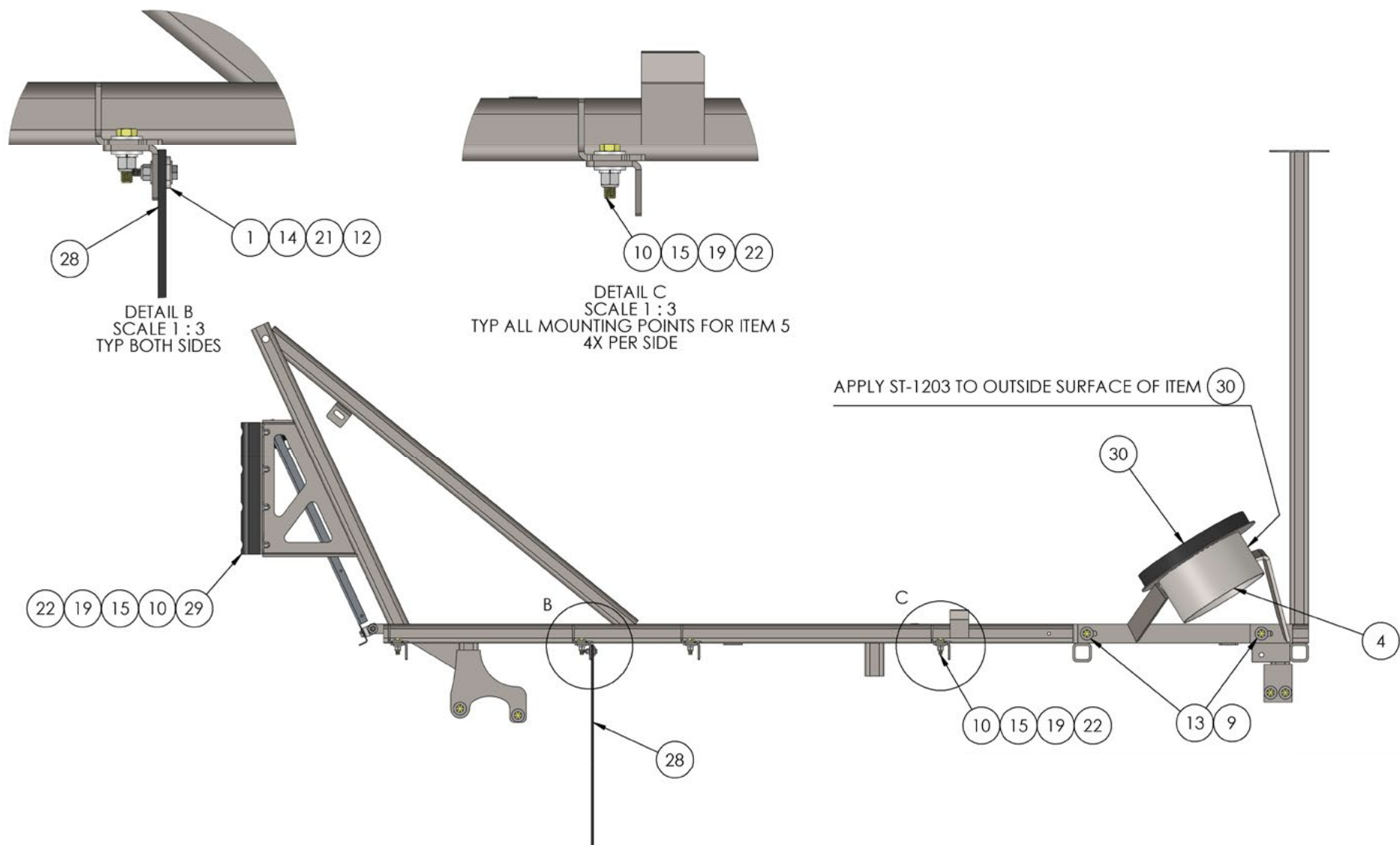
AS-0003 Dump Frame Diagrams

Front View Dump Frame - Diagram 1



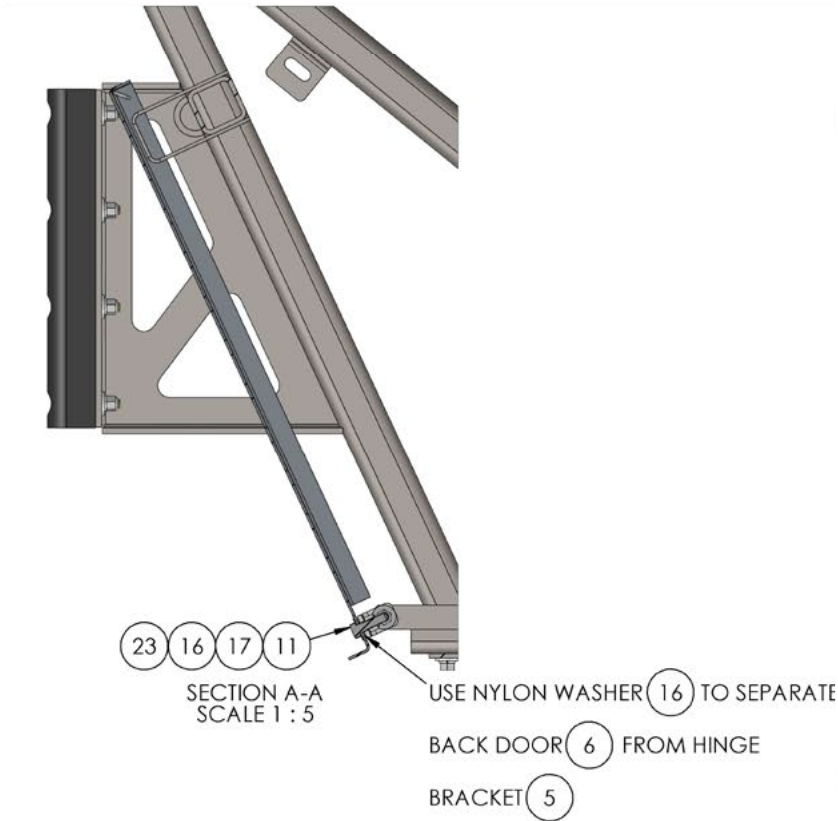
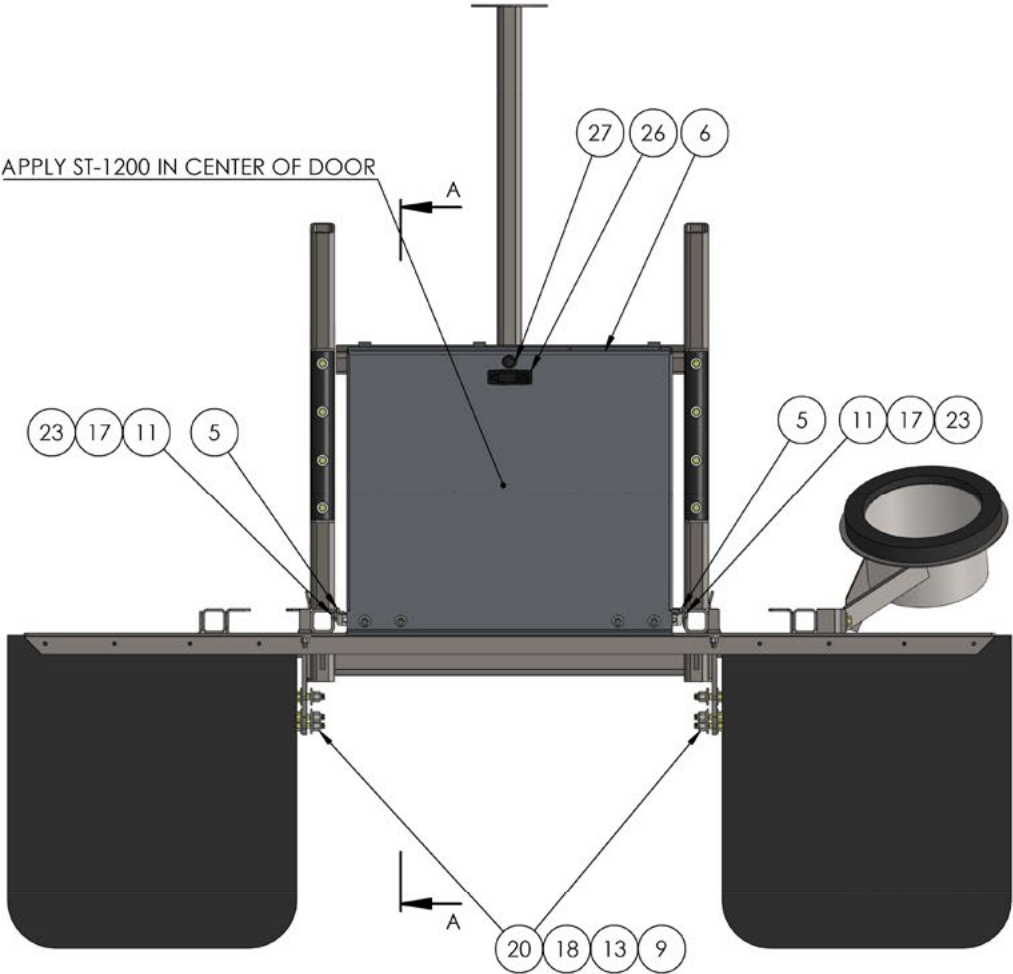
AS-0003 Dump Frame Diagrams

Passenger Side View Dump Frame - Diagram 2



AS-0003 Dump Frame Diagrams

Rear View & Back Door (Driver Side) Dump Frame - Diagram 3



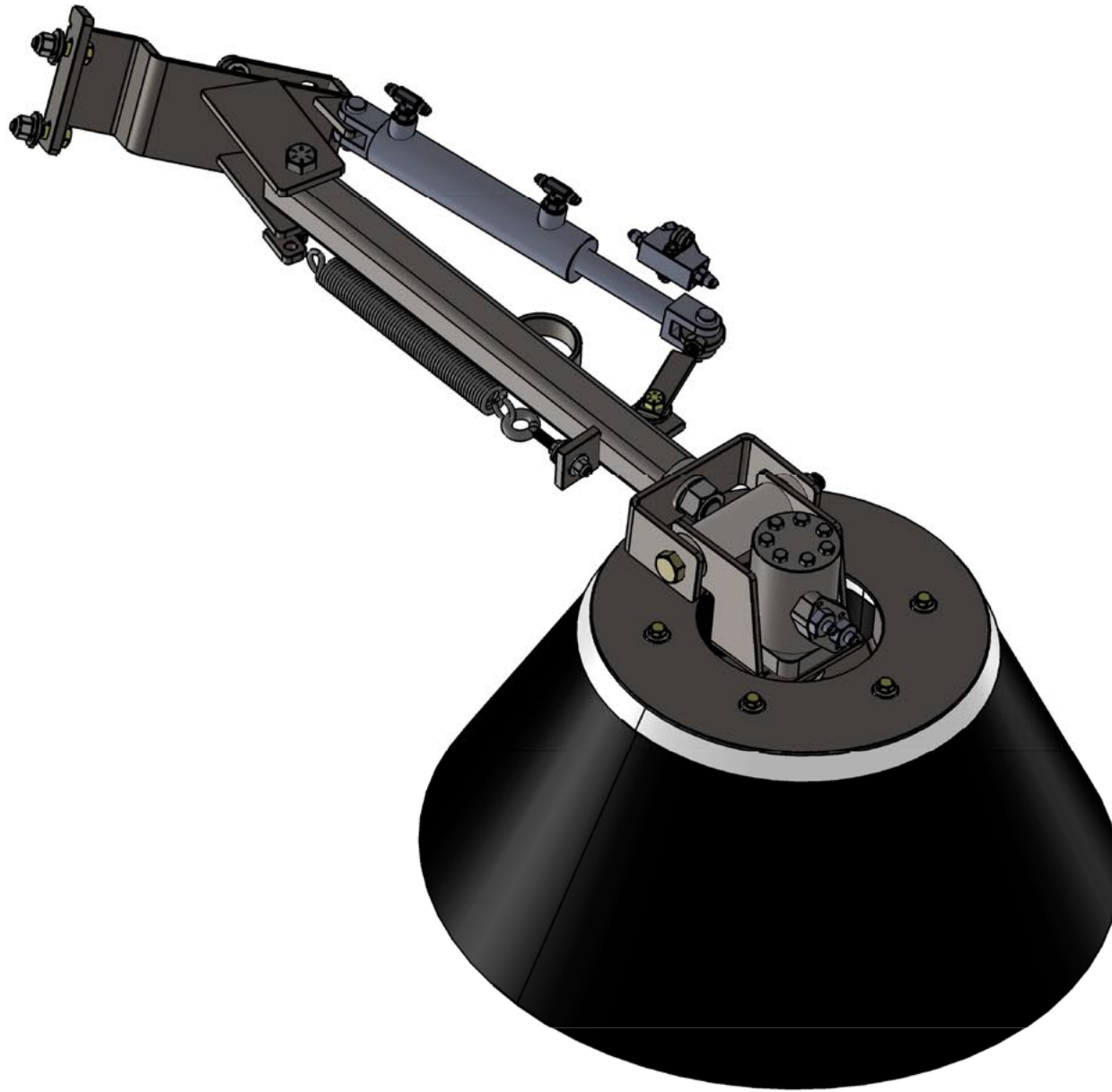
AS-0004 CURB BROOM ASSEMBLY

Item	Part #	Description	Qty
1	BT-1200	CURB BROOM DISH BUSHING	1
2	CB-1000	CURB BROOM ARM ASSEMBLY	1
3	CB-1100	CURB BROOM DISH ASSEMBLY	1
4	CB-1200	CURB BROOM MOTOR MOUNT	1
5	CB-1200-1	MOTOR MOUNT ANGLE	1
6	CB-1300	CURB BROOM TURNBUCKLE ASSEMBLY	1
7	CB-1400	CURB BROOM SPRING	1
8	CB-1500	BROOM WITH POLY BRISTLES ASSEMBLY	1
9	CB-1820	CURB BROOM FRAME MOUNT ASSEMBLY	1
10	FT-1506	HYD FITTING MB-MJ 4-4	2
11	FT-1511	HYD FITTING MJ-MB-04-10-0	2
12	FT-1606	HYD FITTING 4-4-6	2
13	HS-1203	4 FJX- 4 FJX-3"	1
14	HS-1207	4 FJX- 4 FJX90S-21" WG	1
15	HS-1208	4 FJX- 4 FJX90S-38" WG	1
16	HW-1007	BOLT-1/2-13 X 2 HCS GR8	3
17	HW-1019	BOLT-1/4-20 X 1 1/2 HEX CAP SCREW	1
18	HW-1032	BOLT-3/4-10 X 4 1/2 HCS GR8	1
19	HW-1033	BOLT-3/4-10 X 8 HEX CAP SCREW	1
20	HW-1034	BOLT-3/8 X 4 EYEBOLT	1
21	HW-1037	BOLT-3/8-16 X 1 1/2 HEX CAP SCREW	1
22	HW-1039	BOLT 3/8-16-1 HEX CAP SCREW GR8 Y	6

Item	Part #	Description	Qty
23	HW-1041	BOLT-3/8-16 X 2 HCS GR8	6
24	HW-1106	BOLT-1/4-20 X 3/4 HEX CAP SCREW GR8	1
25	HW-1402	FLAT WASHER-1/2 USS	5
26	HW-1403	FLAT WASHER-1/4 USS ZINC	1
27	HW-1404	FLAT WASHER-3/4 USS ZINC	1
28	HW-1405	FLAT WASHER-3/8 USS ZINC	14
29	HW-1418	FLAT WASHER-1/4 FENDER SS	1
30	HW-1502	LOCK WASHER 1 ZINC	1
31	HW-1503	LOCK WASHER-1/2 ZINC	2
32	HW-1504	LOCK WASHER-1/4 ZINC	1
33	HW-1505	LOCK WASHER-3/8 ZINC	11
34	HW-1602	NUT-12-13 HEX NUT	1
35	HW-1603	NUT-1/2-13 NYLOCK ZINC GR5	3
36	HW-1606	NUT-1/4-20 NYLOCK	1
34	HW-1608	NUT-1-14 HEX NUT	1
38	HW-1610	NUT-3/4-10 NYLOCK ZINC GR5	2
39	HW-1614	NUT-3/8-16 NYLOCK ZINC GR5	2
40	HY-1002	CYLINDER-1.5 X 6 WELDED	1
41	HY-1426	MOTOR - DANFOSS (BROOM)	1
42	HY-1715	VALVE-CXBA-XAN-CHECK 2 OF 2	1
43	HY-1716	VALVE-ACH BODY 1 OF 2	1
44	IP-1242	INSULATED CLAMP-1/2	1

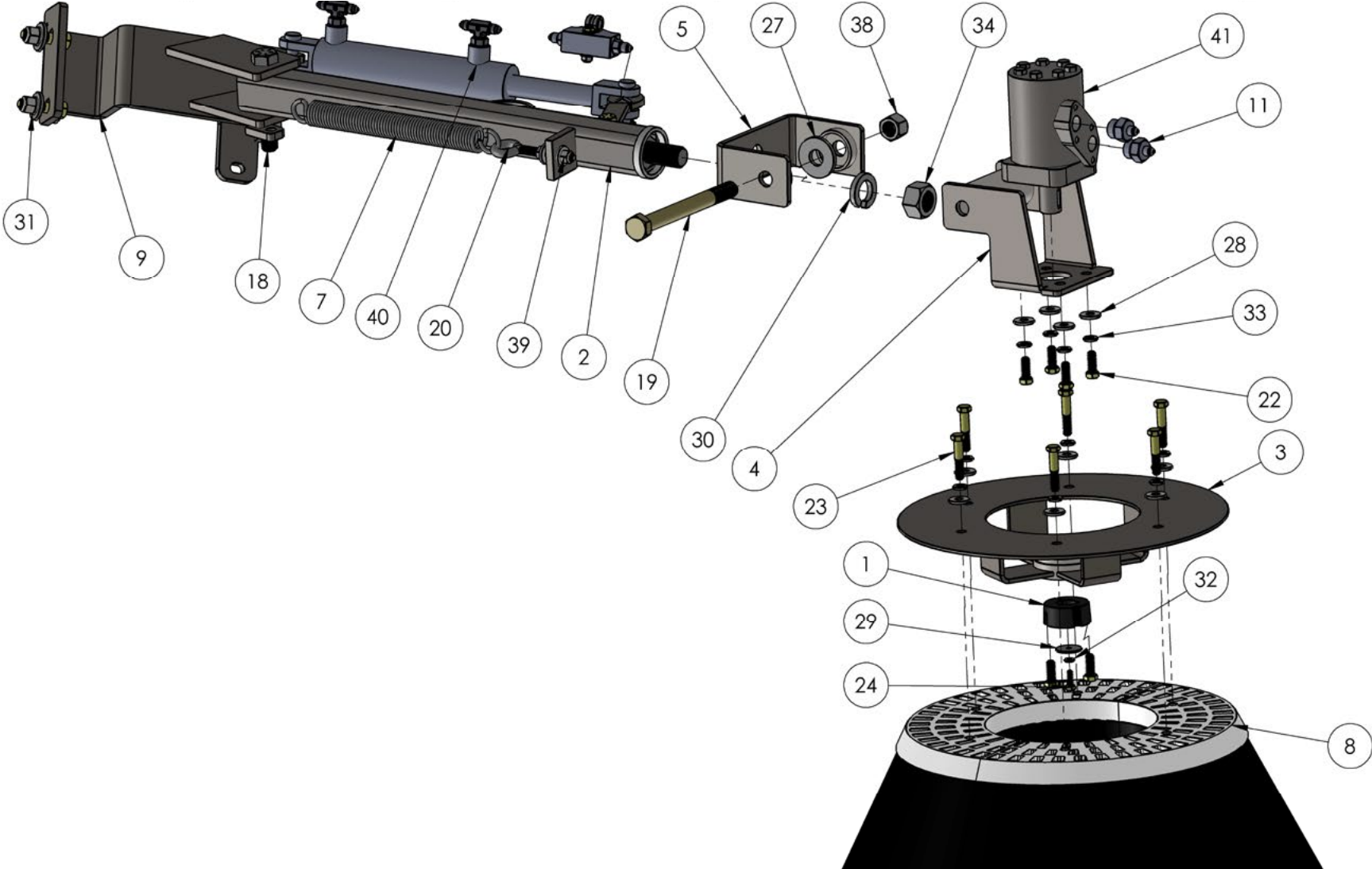
AS-0004 Curb Broom Diagrams

Top View - Curb Broom Assembly - Diagram 1



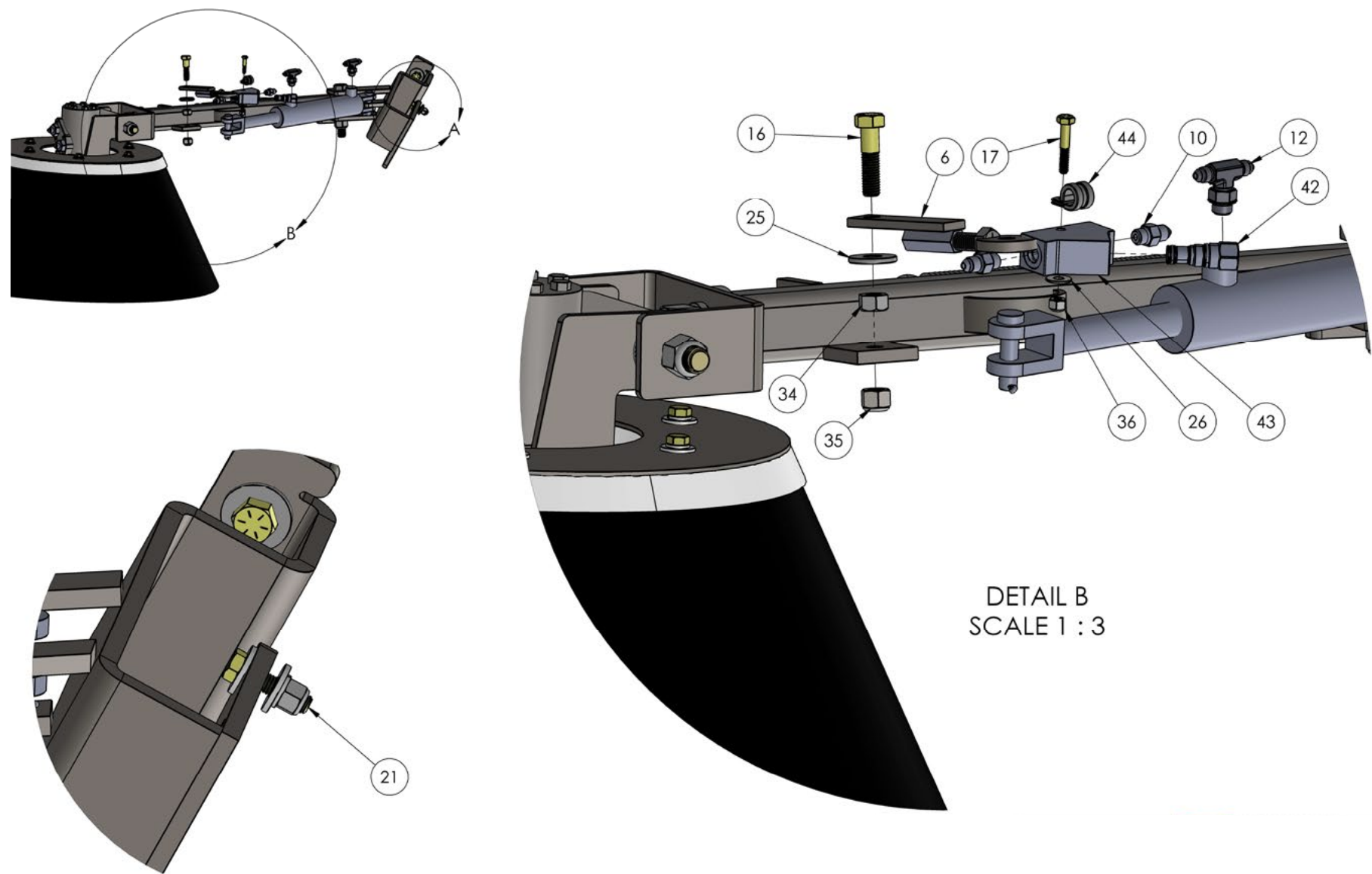
AS-0004 Curb Broom Diagrams

Exploded View - Curb Broom Assembly - Diagram 2



AS-0004 Curb Broom Diagrams

CB Arm - Cylinder Attachment - Diagram 3



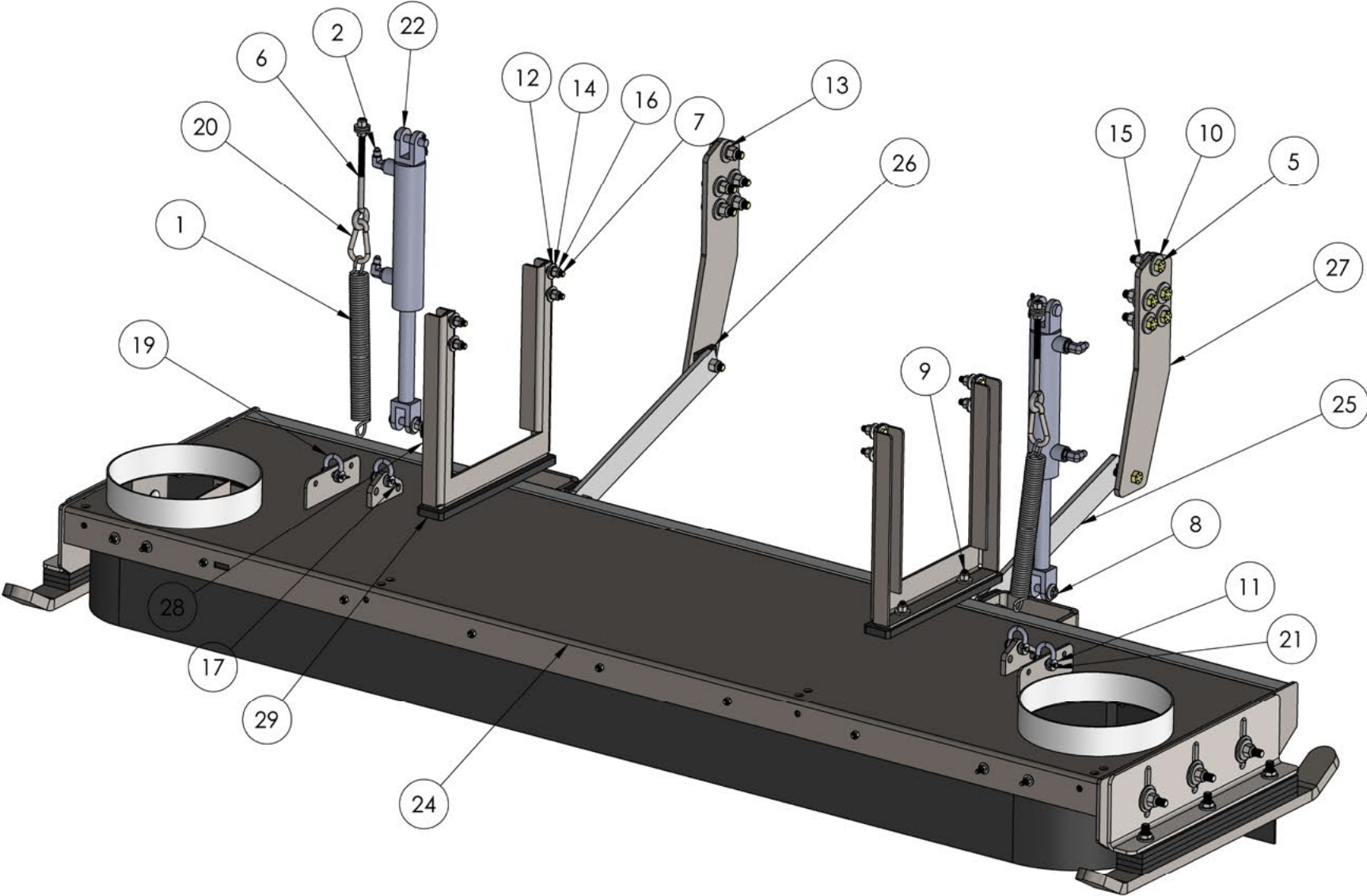
AS-0005 PICKUP HEAD ASSEMBLY

Item	Part #	Description	Qty
1	CB-1400	CURB BROOM SPRING	2
2	FT-1202	HYD FITTING 90-MB-MJ90 6-4	4
3	HS-1054	UFD KANAFLEX 10" X 35"	1
4	HS-1055	UFD KANAFLEX 10" X 38"	1
5	HW-1007	BOLT-1/2-13 X 2 HCS GR8	14
6	HW-1036	BOLT-3/8 X 6 EYEBOLT	2
7	HW-1037	BOLT-3/8-16 X 1 1/2 HEX CAP SCREW	8
8	HW-1040	BOLT-3/8-16 X 2 1/2 HEX CAP SCREW	2
9	HW-1110	3/8-16 x 1.25 - SQUARE NECK ELEVATOR BOLT	4
10	HW-1402	FLAT WASHER-1/2 USS	20
11	HW-1403	FLAT WASHER-1/4 USS ZINC	8
12	HW-1405	FLAT WASHER-3/8 USS ZINC	28
13	HW-1503	LOCK WASHER-1/2 ZINC	10
14	HW-1505	LOCK WASHER-3/8 ZINC	8
15	HW-1603	NUT-1/2-13 NYLOCK ZINC GR5	14
16	HW-1614	NUT-3/8-16 NYLOCK ZINC GR5	16
17	HW-1801	1/8" X 1" COTTER PIN	4
18	HW-1802	CHAIN - 5/16 COIL CHAIN	14
19	HW-1803	5/16 CHAIN SHACKLE	4
20	HW-1804	5/16" x 3-1/8" SPRING SNAP LINK	2
21	HW-1805	CYLINDER PIN	4

Item	Part #	Description	Qty
22	HY-1002	CYLINDER-1.5 X 6 WELDED	2
23	IP-1200	HOSE CLAMP SS 10" SNAP LCK	4
24	PU-1030	81" RAPTOR 2 PICKUP HEAD	1
25	PU-1707	DRAG BAR	2
26	PU-1750	DRAG BAR SHIM	4
27	PU-2874	DRAG BAR MOUNT	2
28	US-1554	UPSTOP CABOVER - COATED	2
29	US-1901	UPSTOP PAD	2

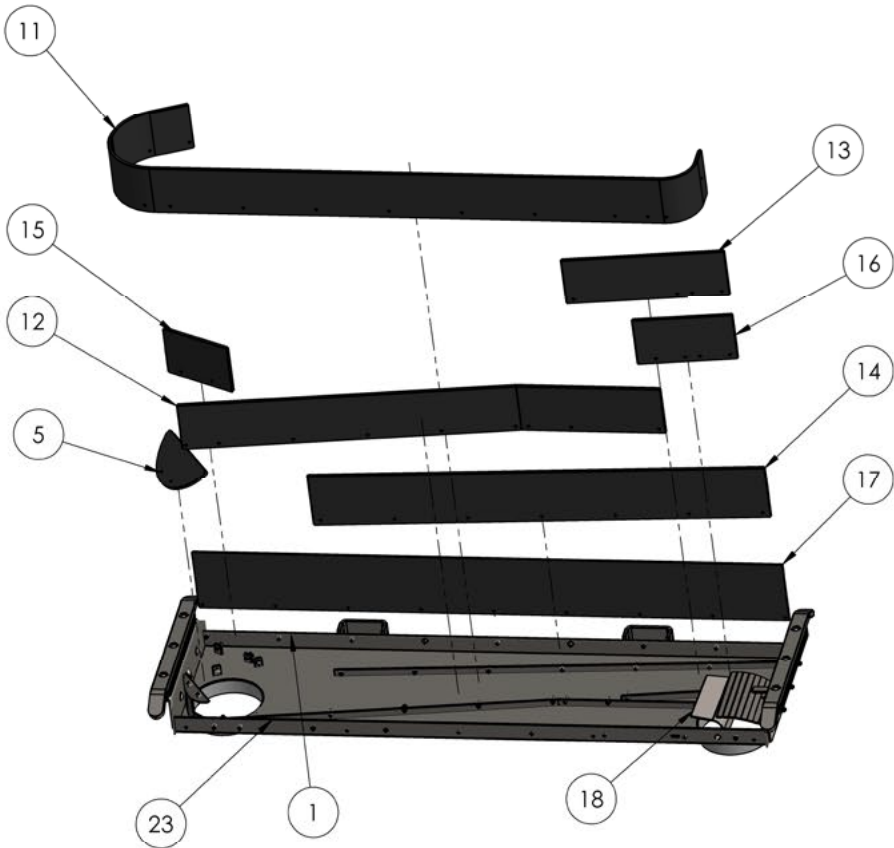
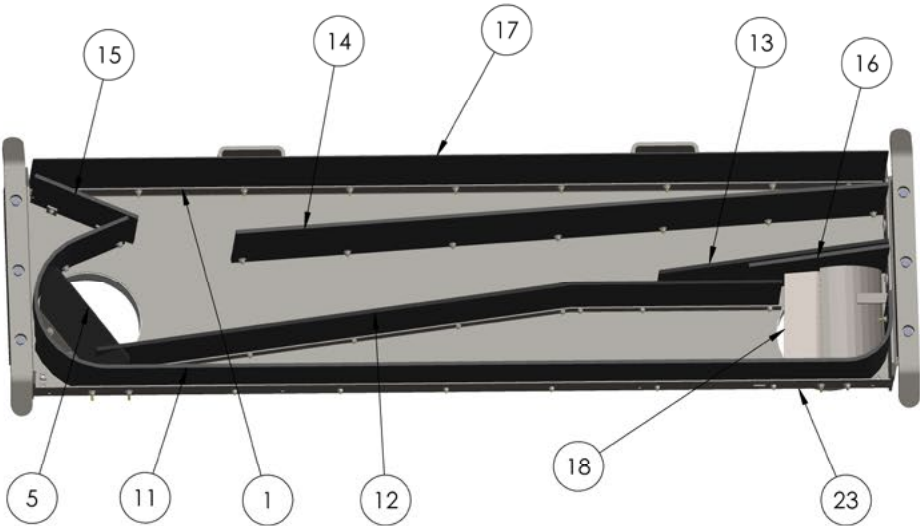
AS-0005 Pickup Head Diagrams

Top View - Pickup Head Assembly - Diagram 1



AS-0005 Pickup Head Diagrams

Underside View - Pickup Head/Flap Assembly - Diagram 2



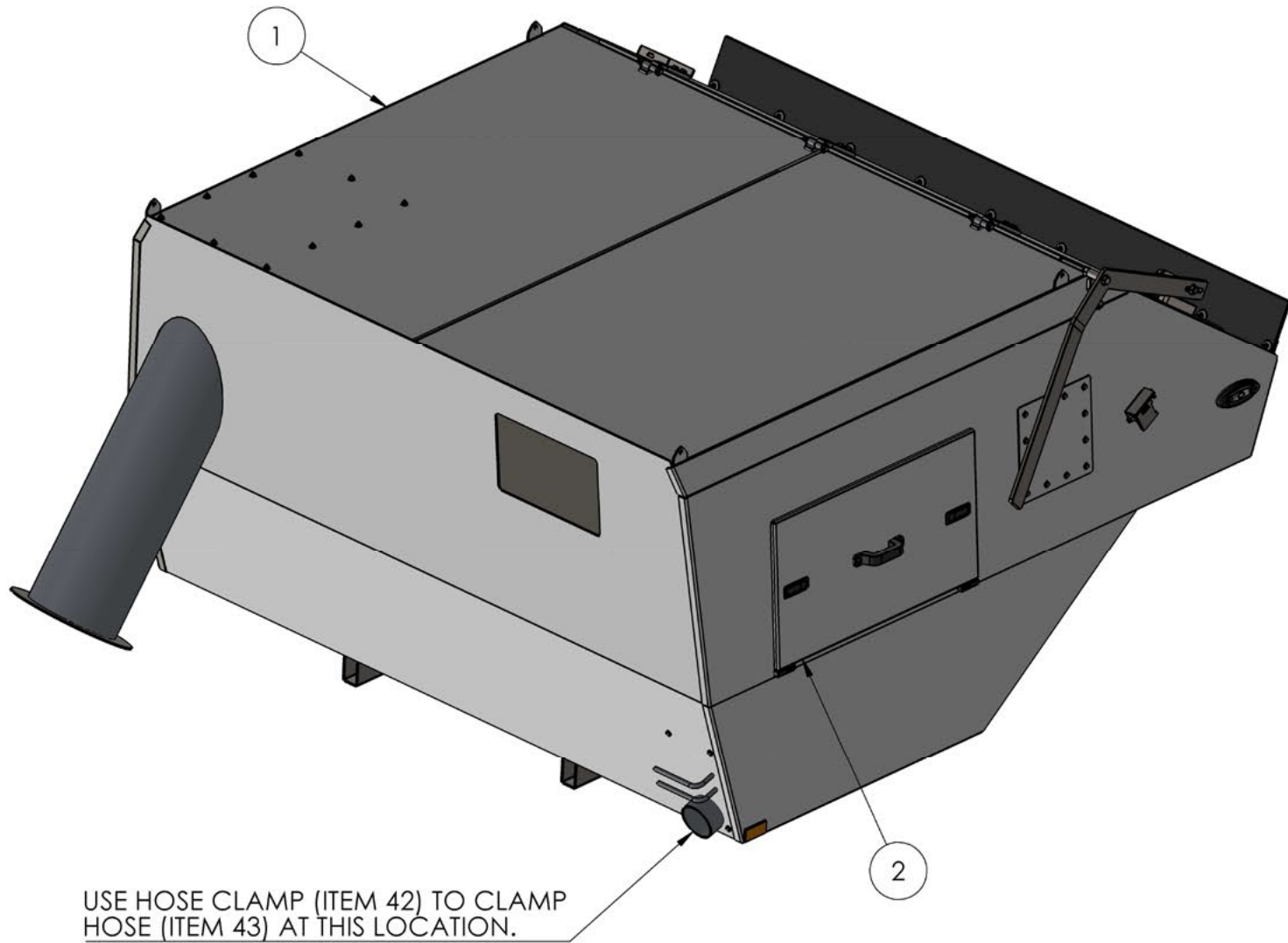
AS-0006 HOPPER ASSEMBLY

Item	Part #	Description	Qty
1	HR-2920	5 YARD HOPPER ASSEMBLY	1
2	DR-1480	SIDE DOOR ASSEMBLY	2
3	DR-1761	5 YARD HOPPER PROP MOUNT ASMBLY	1
4	DR-1751	DUMP DOOR HANDLE EXTENDED	1
5	DR-1770	DUMP DOOR PROP S BRACKET	1
6	DR-1706	HOPPER DOOR CATCH PIN BARREL	1
7	EL-1034	LIGHT-RED RND LED MARKER LIGHT	5
8	EL-1014	LIGHT - RED LED SIDE LIGHT	2
9	IP-0205	WHALE TAIL FLAP	1
10	HR-1080	HOPPER DRAIN SCREEN	1
11	DR-1277	DUMP DOOR WELDMENT	1
12	DR-1300	DUMP DOOR HINGE WELDMENT	3
13	IP-1505	HOPPER WEAR PLATE	1
14	HW-1009	BOLT-1/2-13 X 3 HEX CAP SCREW	1
15	HW-1416	FLAT WASHER-1/2" SAE	3
16	HW-1630	NUT-1/2"-13 NYLOCK GR5	2
17	HW-1013	BOLT-1/2-13 X 5 HCS GR8	1
18	HR-0324	HOPPER SIDE SUCKER HOLE CVR PLATE	1
19	HW-1073	BOLT-3/8-16 X 3 HEX CAP SCREW	3
20	HW-1411	FLAT WASHER-3/8 USS SS	28
21	HW-1629	NUT-3/8-16 NYLOCK SS GR5	8
22	HW-1628	NUT-1/4-20 NYLOCK SS GR5	41

Item	Part #	Description	Qty
23	HW-1418	FLAT WASHER-1/4 FENDER SS	9
24	HW-1410	FLAT WASHER-1/4 USS	61
25	HW-1076	BOLT-1/4-20 X 1 HEX CAP SCREW	35
26	HW-1074	BOLT-3/8-16 X 1 1/4 SS HCS	9
27	HW-1409	FLAT WASHER-3/8 NYLON	10
28	HW-1075	BOLT-3/8-16 X 1 1/2 SS HEX CAP SCREW	2
29	HW-1070	BOLT-8-32 X 3/4 SS PAN HEAD	4
30	HW-1631	NUT 8-32 NYLOCK SS	4
31	HW-0987	NEODYMIUM MAGNET	1
32	HW-1401	FLAT WASHER-# 8 SS	4
33	EL-1002	LIGHT AMBER REFLECTOR	2
34	DR-1222	DOOR CATCH FLAT	1
35	DR-1221	HOPPER DOOR CATCH BASE	1
36	HW-1614	NUT-3/8-16 NYLOCK ZINC GR5	1
37	HW-1109	BOLT-3/8"-16 X 4" HEX CAP SCREW	1
38	HW-1512	LOCK WASHER-1/4 SS	4
39	HW-1032	BOLT-3/4-10 X 4 1/2 HCS GR8	2
40	HW-1610		2
41	SE-1200	5 YARD HOPPER DUMP DOOR SEAL	1
42	IP-1204	HOSE CLAMP 22 #104-5.5"-7.5"	1
43	HS-1053	HOSE-4" FLAT HOSE	18in
44	SE-1550	SEAL-1 1/2 FLAT SEAL	3in
45	ST-1201	STICKER "NITE-HAWK SWEEPERS"	2
46	ST-1500	STICKER "RAPTOR"	2
47	ST-1208	STICKER-HOPPER, DUMP DOOR-D505	1

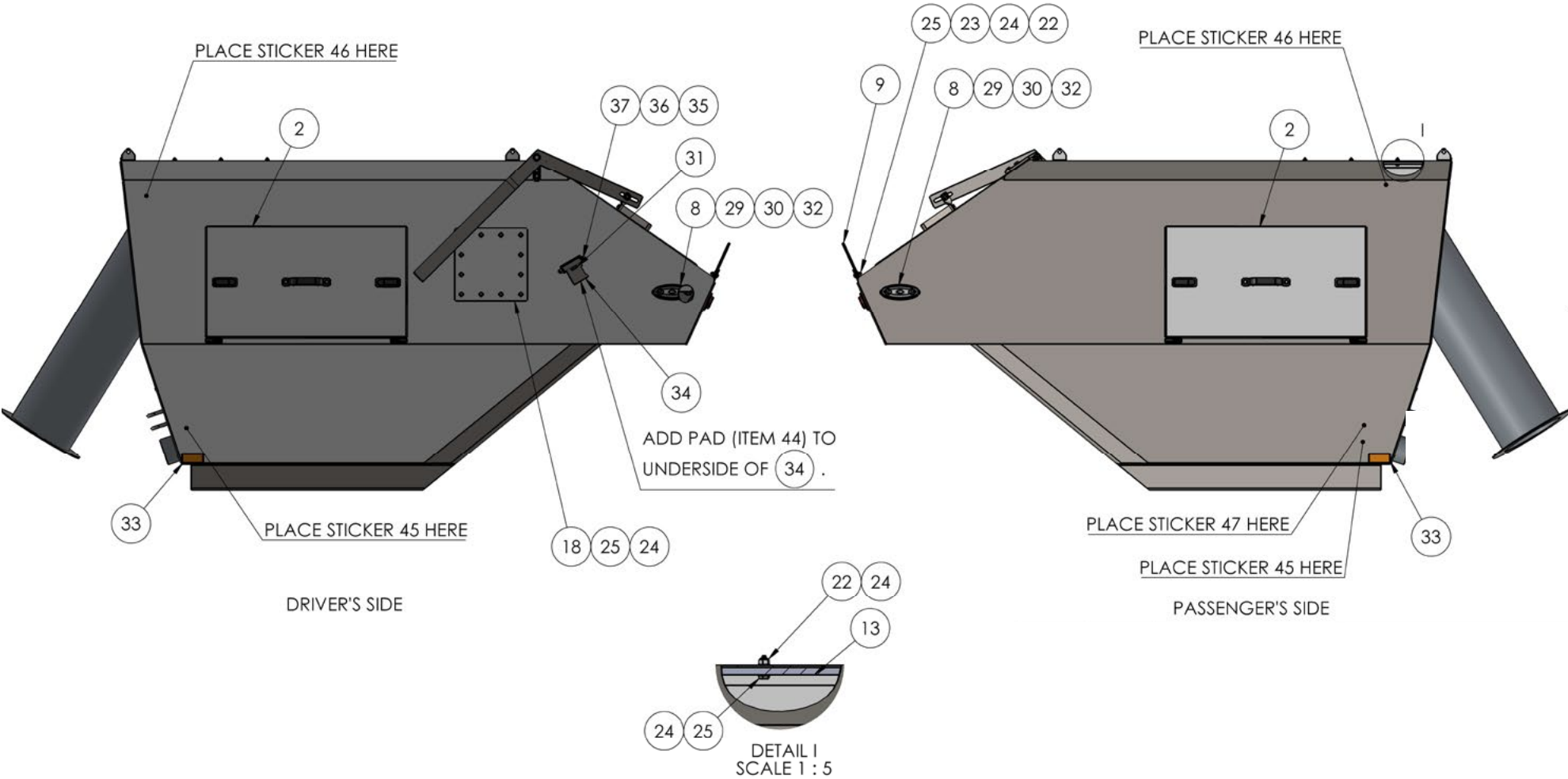
AS-0006 Hopper Diagrams

Top View - Hopper Assembly - Diagram 1



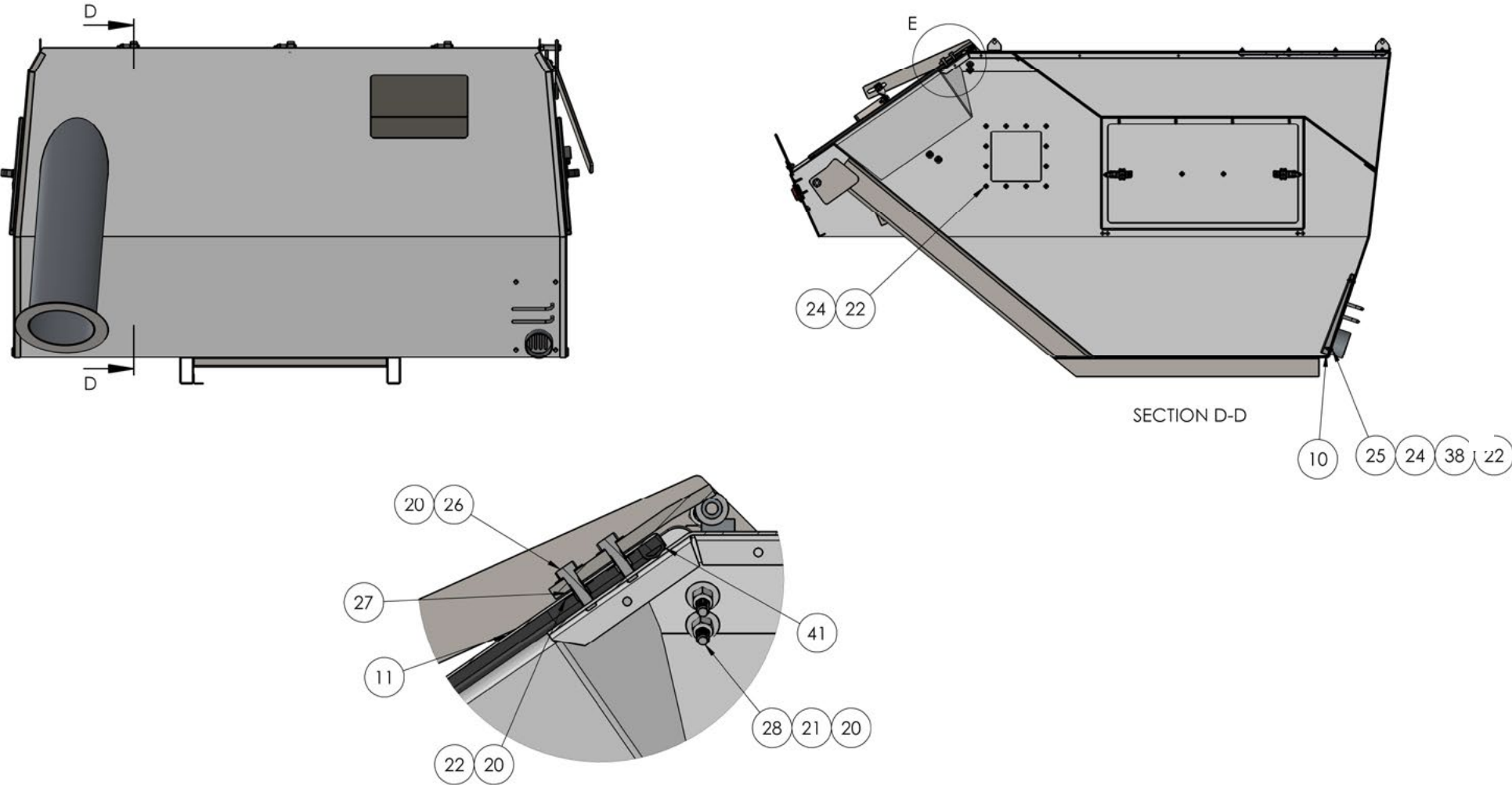
AS-0006 Hopper Diagrams

Side Views - Hopper Assemb - Diagram 2



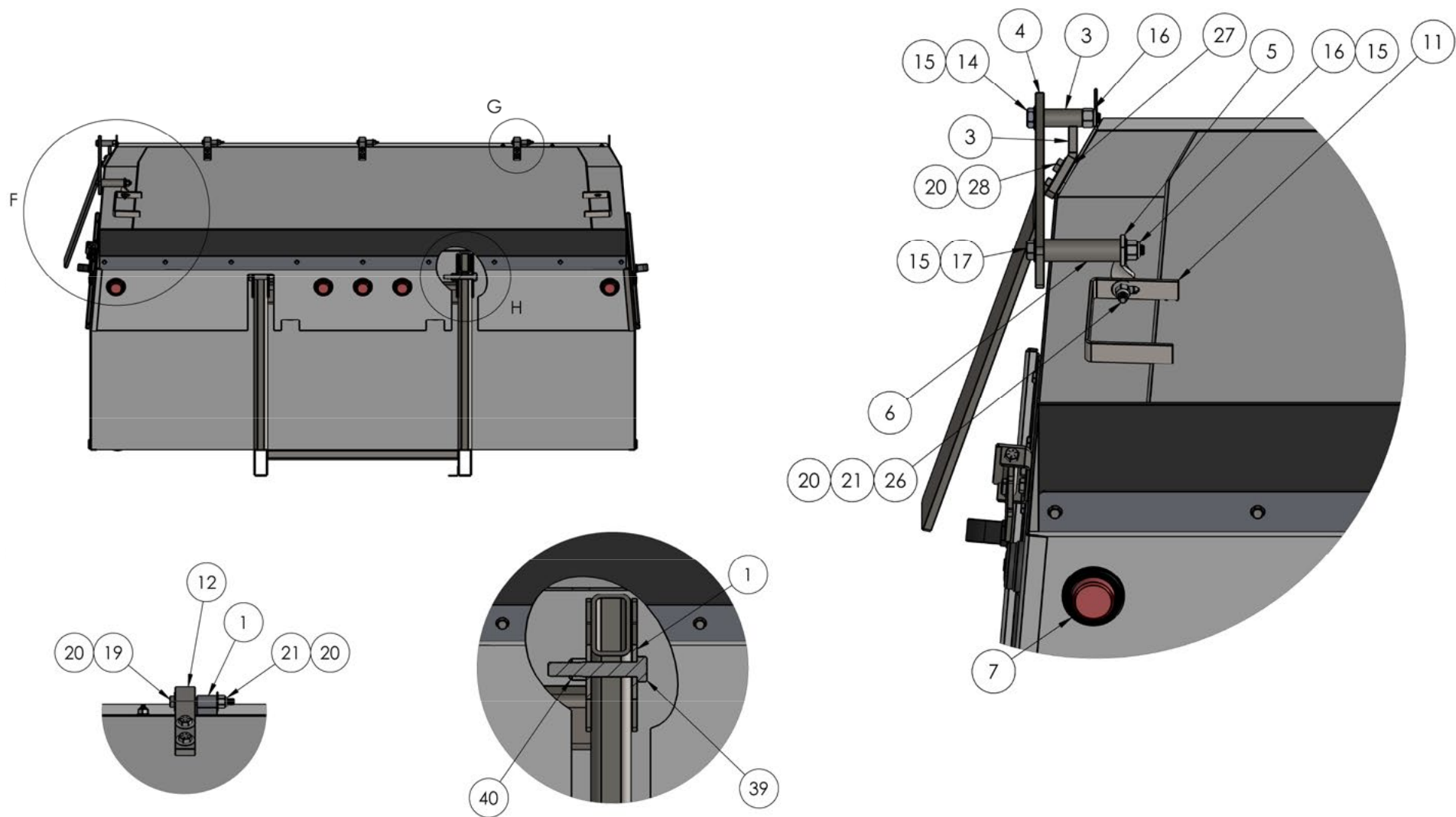
AS-0006 Hopper Diagrams

Front and Passenger Side Views - Hopper Assembly - Diagram 3



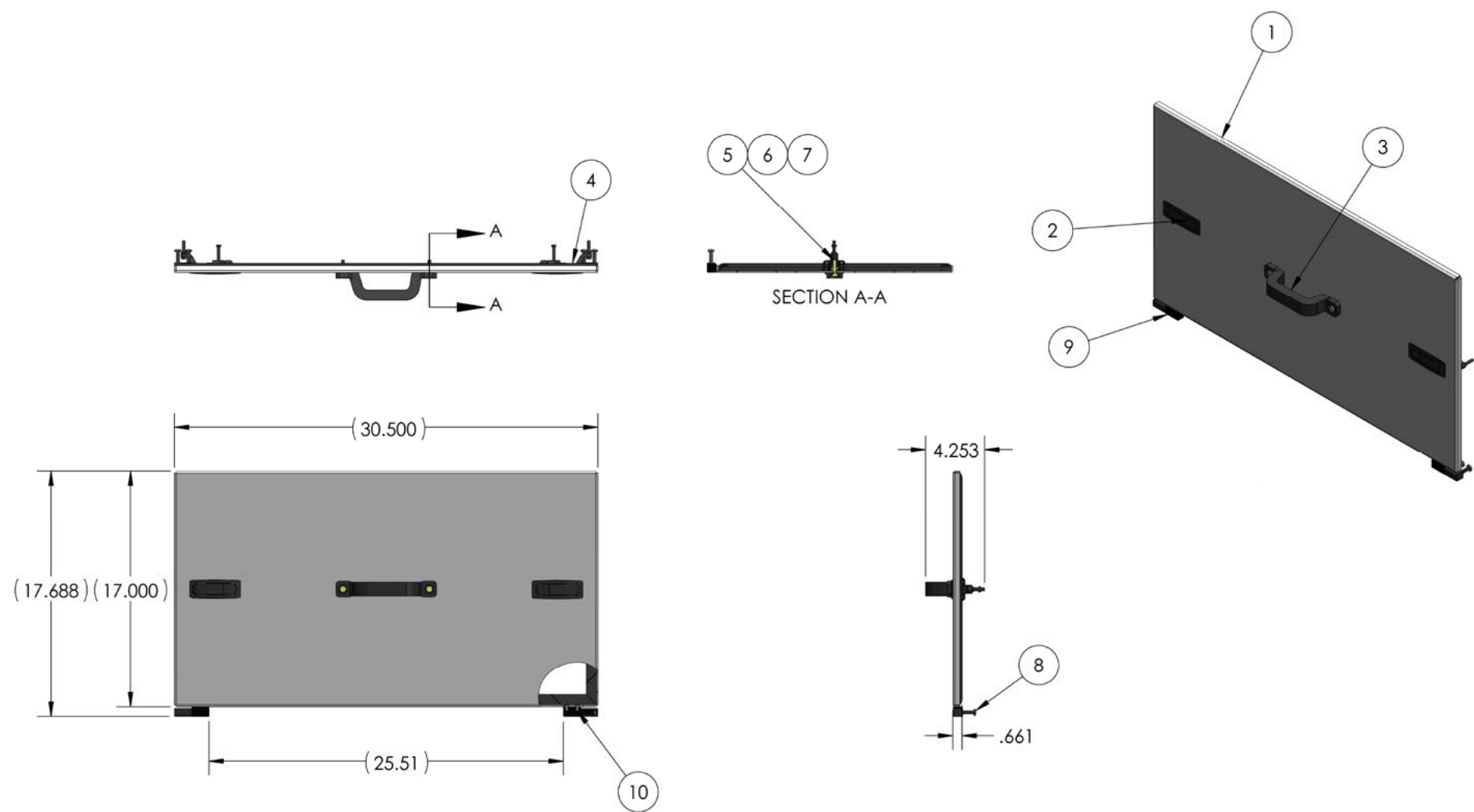
AS-0006 Hopper Diagrams

Rear View - Hopper Assembly - Diagram 4



AS-0006 Hopper Diagrams

Hopper Side Door - Diagram 5

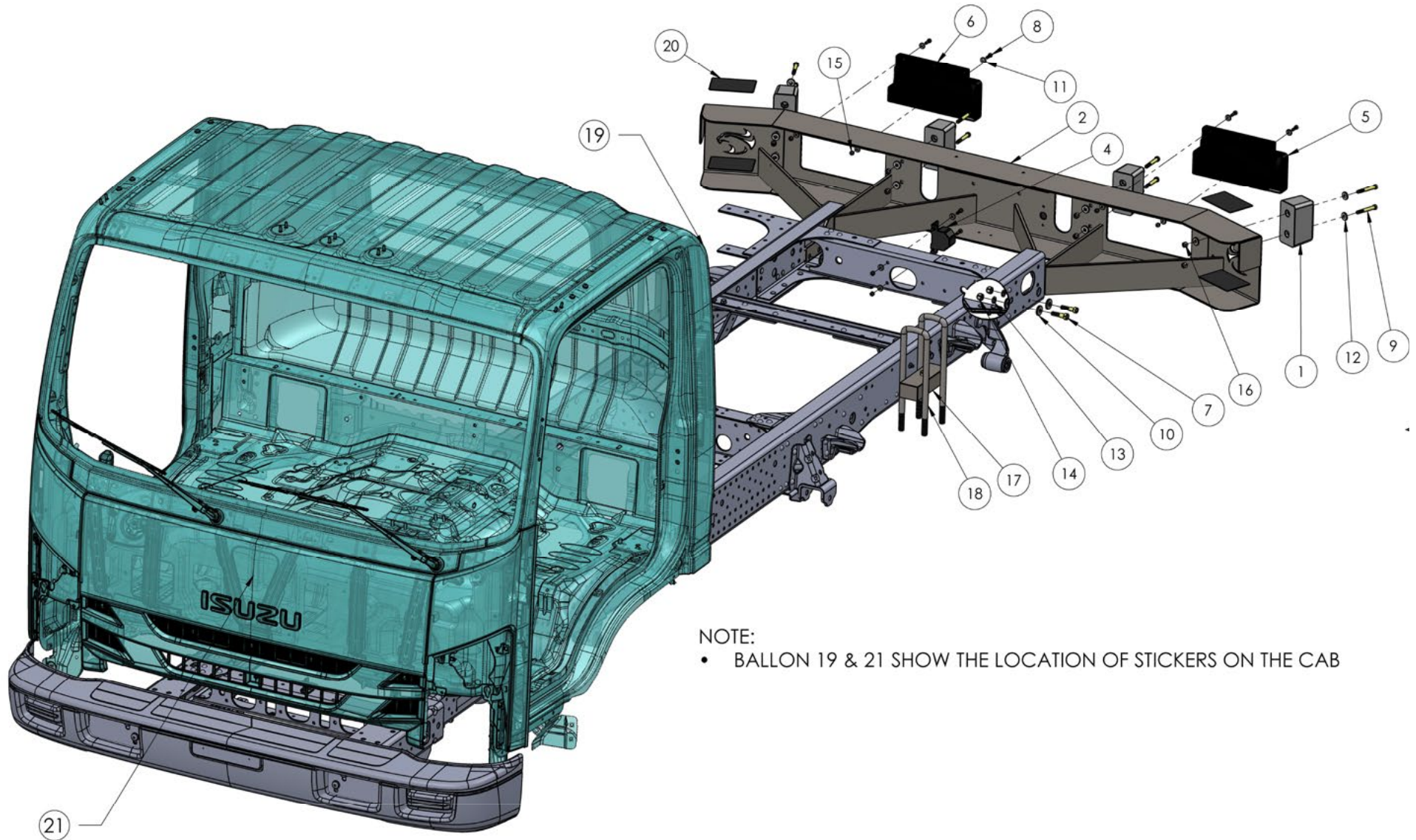


AS-0007 CHASSIS & REAR BUMPER

Item	Part #	Description	Qty
1	BP-1005	BUMPER - DOCK BUMPER	4
2	BP-2101	BUMPER ASSEMBLY	1
3	EL-1414	LIGHT-LICENSE PLATE	1
4	EL-1500	BACK-UP ALARM	1
5	EL-3050	"RAPTOR THREE COLOR TAIL LIGHT - DRIVER"	1
6	EL-3060	"RAPTOR THREE COLOR TAIL LIGHT - PASSENGER"	1
7	HW-1007	BOLT-1/2-13 X 2 HCS GR8	4
8	HW-1021	BOLT-1/4-20 X 1 HEX CAP SCREW	6
9	HW-1043	BOLT-3/8-16 X 3 HCS GR8	8
10	HW-1402	FLAT WASHER-1/2 USS	8
11	HW-1403	FLAT WASHER-1/4 USS ZINC	12
12	HW-1405	FLAT WASHER-3/8 USS ZINC	16
13	HW-1503	LOCK WASHER-1/2 ZINC	4
14	HW-1603	NUT-1/2-13 NYLOCK ZINC GR5	4
15	HW-1606	NUT-1/4-20 NYLOCK	6
16	HW-1614	NUT-3/8-16 NYLOCK ZINC GR5	8
17	IP-1455	RAPTOR SPRING BLOCKS REAR	2
18	IP-1459	SPRING-GRD 8 U-BOLT KIT-REAR	4
19	ST-1212	STICKER - "IMPORTANT " "RAPTOR"	1
20	ST-1215	3M ANTI-SLIP GRIP TAPE	4
21	ST-1500	STICKER - "RAPTOR"	1

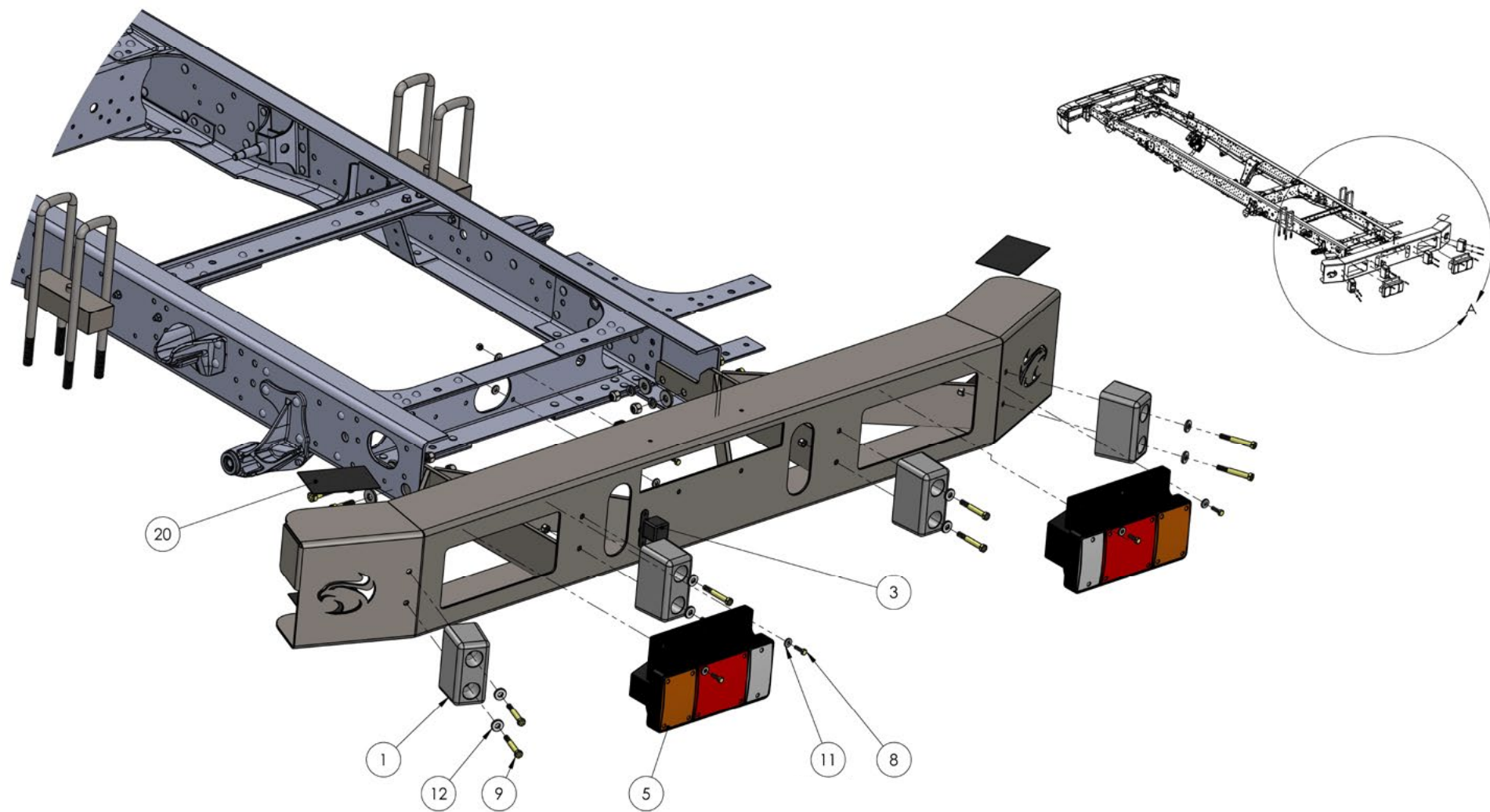
AS-0007 Chassis & Rear Bumper Diagrams

Side View - Rear Bumper Assembly - Diagram 1



AS-0007 Chassis & Rear Bumper Diagrams

Rear View - Rear Bumper Assembly - Diagram 2



AS-0008 ASSEMBLY ENGINE

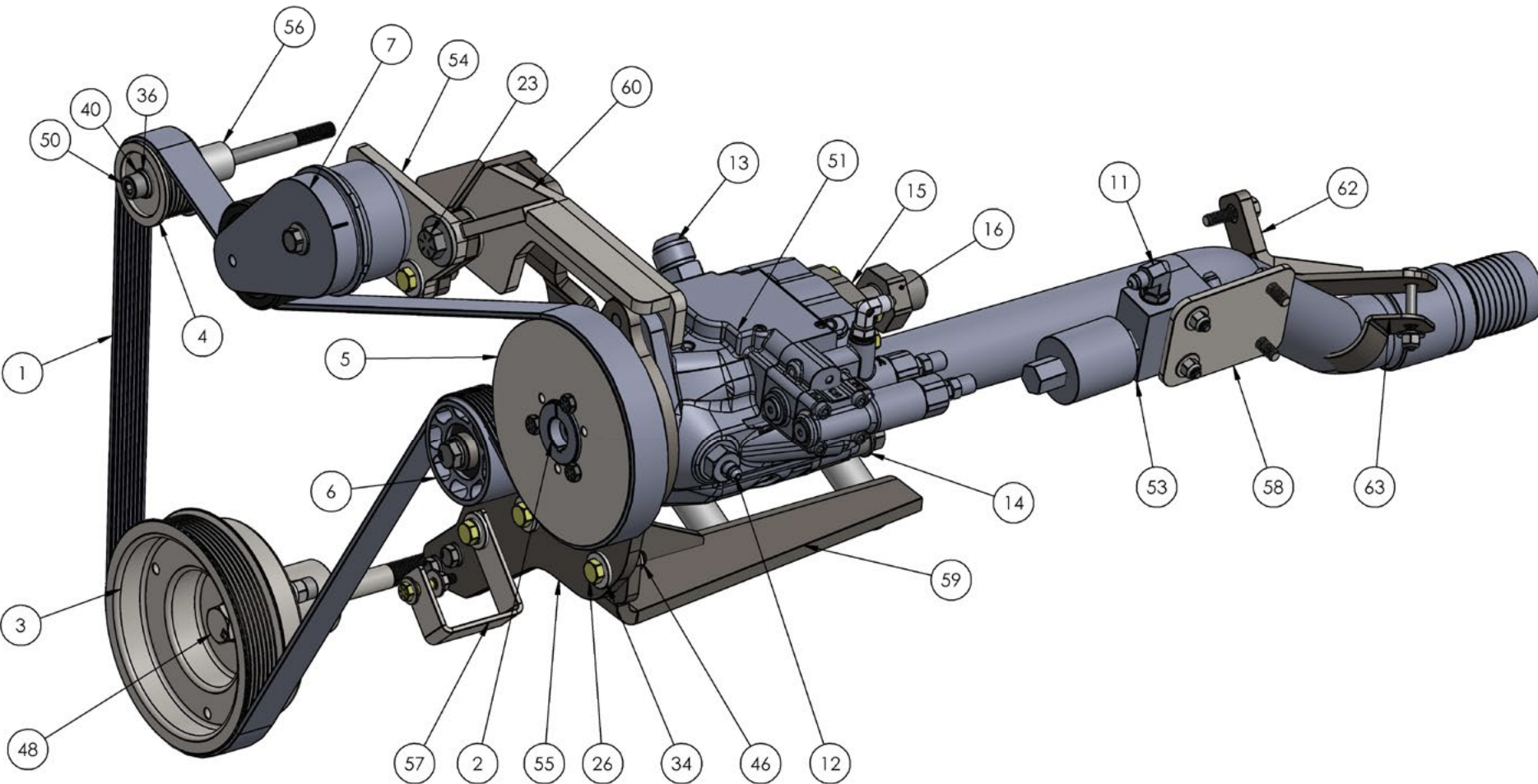
Item	Part #	Description	Quantity
1	BT-1023	GATES K080745HD	1
2	BT-1210	BUSHING SH014 SH7-8	1
3	BT-1418	PULLEY GROOVE CRANKSHAFT	1
4	BT-1423	GROOVED IDLER PULLEY GATES	1
5	BT-1502	GMC 2020 PUMP PULLEY	1
6	BT-1701	IDLER PULLEY RAPTOR	1
7	BT-1702	GATES TENSIONER	1
8	BT-1710	RAPTOR EDGE IDLER BUSHING	2
9	BT-1900	STEP KEY 1x3/16x3/32x1/4x1/8	1
10	EL-1852	LOOM - 1/4" SPLIT	11"
11	FT-1202	HYD FITTING 90-MB-MJ90 6-4	2
12	FT-1239	HYD FITTING MB-MJ 8-4	1
13	FT-1508	HYD FITTING MJ-MB 12-8	1
14	FT-1576	HYD FITTING 24 FLNGE KIT	1
15	FT-1579	CODE 61 1/2" SPLIT FLANGE KIT	1
16	FT-1585	HYD FITTING 12-12 FLANGE SPLIT	1
17	FT-1700	HYD FITTING 90-BSPP-MJ90-04-04	1
18	HS-1103	SPIRAL WRAP 1 1/2"	5.5"
19	HS-1892	2IN SUCTION HEADER RAPTOR 2+	1
20	HS-2832	4 FJX- 4 FJX90S 10.25" (387)	1
21	HS-2833	4 FJX- 4 FJX-12" (487TC)	1
22	HW-1003	BOLT-1/2-13 X 1 1/2 HEX CAP SCREW	1
23	HW-1006	BOLT-12-13 X 2.5 HEX CAP SCREW	1
24	HW-1019	BOLT-1/4-20 X 1 1/2 HEX CAP SCREW	1
25	HW-1024	BOLT-14-20 X 2 HEX CAP SCREW	4

Item	Part #	Description	Quantity
26	HW-1037	BOLT-3/8-16 X 1 1/2 HEX CAP SCREW	3
27	HW-1039	BOLT 3/8-16-1 HEX CAP SCREW GR8 Y	1
28	HW-1059	BOLT-M8-1.25 X 55 HEX CAP SCREW	2
29	HW-1081	BOLT-M10-1.5 X 60 HEX CAP SCREW	1
30	HW-1166	BOLT-M8 1.25 X 25 HEX CAP SCREW	2
31	HW-1167	BOLT-M8 1.25 X 35 HEX CAP SCREW	3
32	HW-1402	FLAT WASHER-1/2 USS	3
33	HW-1403	FLAT WASHER-1/4 USS ZINC	10
34	HW-1405	FLAT WASHER-3/8 USS ZINC	7
35	HW-1413	FLAT WASHER-M8	7
36	HW-1414	FLAT WASHER-M10	5
37	HW-1416	FLAT WASHER-1/2" SAE	2
38	HW-1503	LOCK WASHER-1/2 ZINC	6
39	HW-1505	LOCK WASHER-3/8 ZINC	8
40	HW-1507	M10 LOCKWASHER	4
41	HW-1509	M8 LOCKWASHER	7
42	HW-1510	LOCK WASHER-M16	1
43	HW-1603	NUT-1/2-13 NYLOCK ZINC GR5	1
44	HW-1606	NUT-1/4-20 NYLOCK	5
45	HW-1613	3/8"-16 HEXNUT	3
46	HW-1629	NUT-3/8-16 NYLOCK SS GR5	3
47	HW-1660	BOLT 3/8-16 X 1-1/2 SCKET CAP SCREW	3
48	HW-2000	BOLT-M16 X 170 HCS 8.8	1
49	HW-2003	BOLT-12-13 X 1.25 HEX CAP SCREW	1
50	HW-2004	SOCKET CAP SCREW M10X1.5 160MM	1
51	HW-2005	HEX SCREW M10X1.5 110MM	2

Item	Part #	Description	Quantity
51	HY-1553	PUMP-CASAPPA PISTON-REAR PORT	1
53	HY-1751	REMOTE PRESSURE COMPENSATOR	1
54	PM-1928	PUMP MOUNT TENSIONER PLATE	1
55	PM-3003	PUMP MOUNT WELDMENT	1
56	PM-3004	REAR IDLER GROOVE SPACER	1
57	PM-3062	FAN SHROUD MOUNT BRACKET	1
58	PM-3102	PROP VALVE MOUNT BRACKET	1
59	PM-3104	REAR PUMP MOUNT WELDMENT	1
60	PM-3111	TENSIONER SUPPORT WELDMENT	1
61	PM-3304	TENSIONER MOUNT WELDMENT	1
62	PM-3402	SUCTION TUBE HEAD MT WELDMENT	1
63	PM-3403	SUCTION HEADER CLASP	1

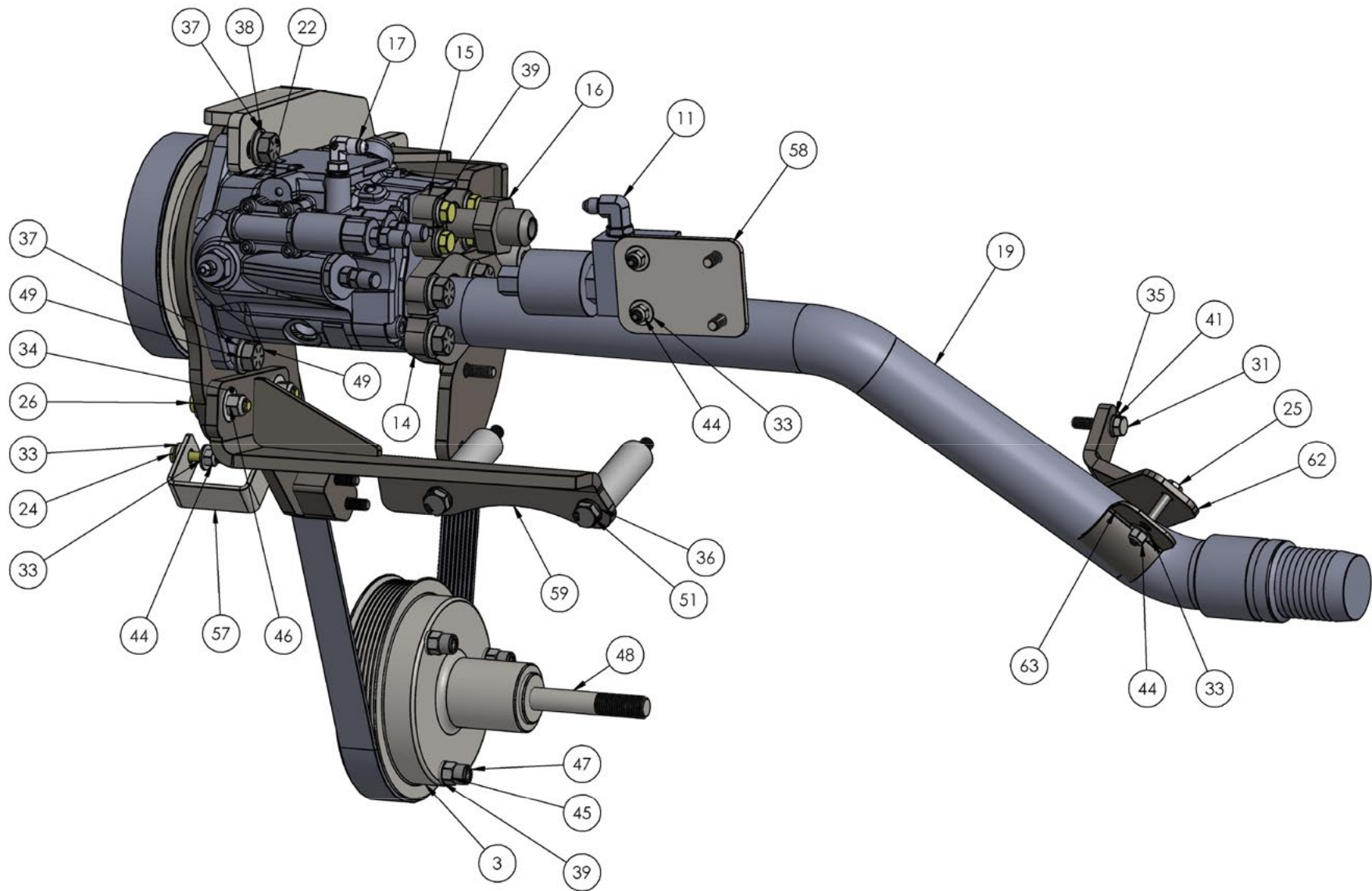
AS-0008 Assembly Engine Diagrams

Driver Side View 1 - Pump & Belt Assembly - Diagram 1



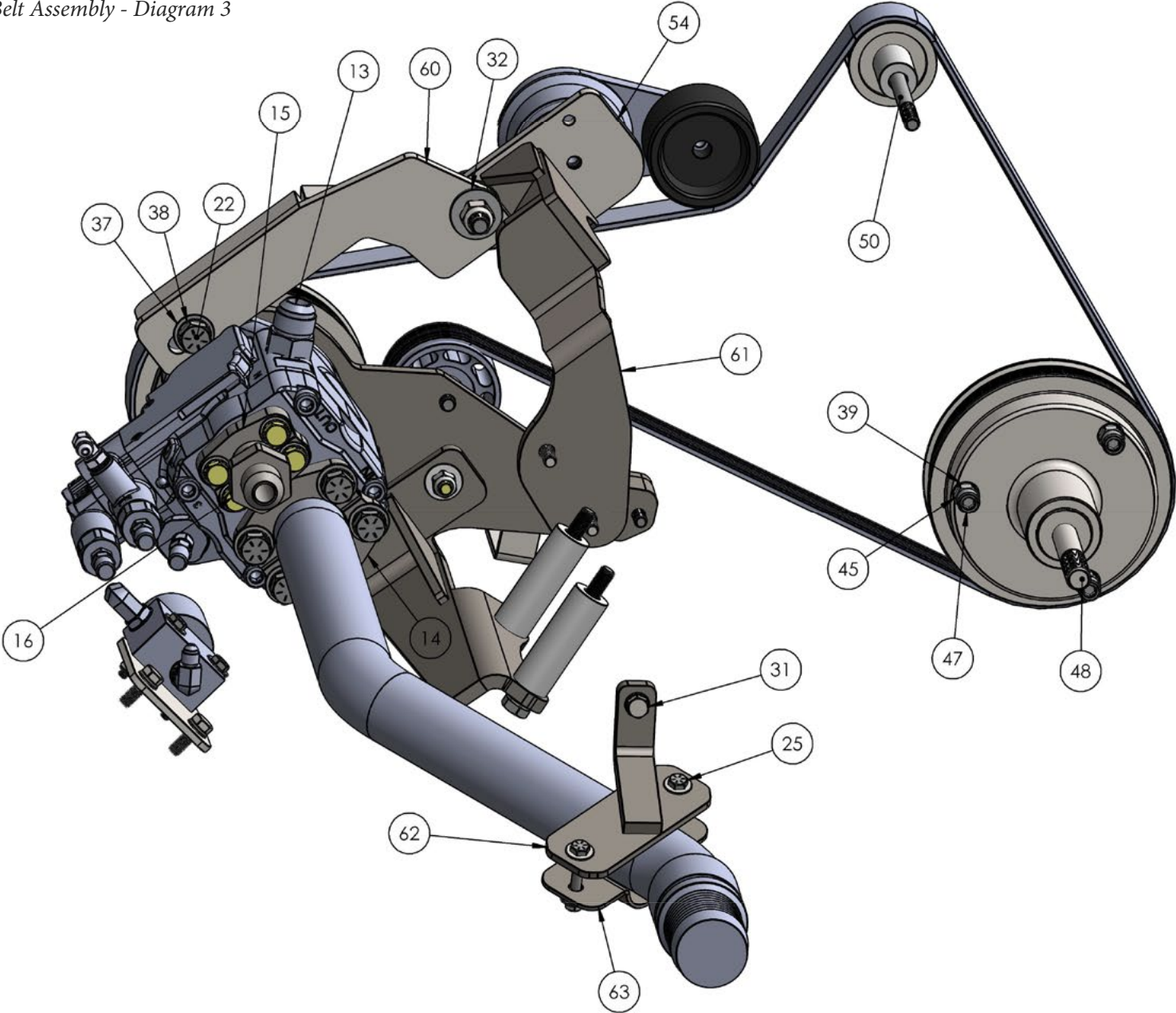
AS-0008 Assembly Engine Diagrams

Driver Side View 2 - Pump & Belt Assembly - Diagram 2



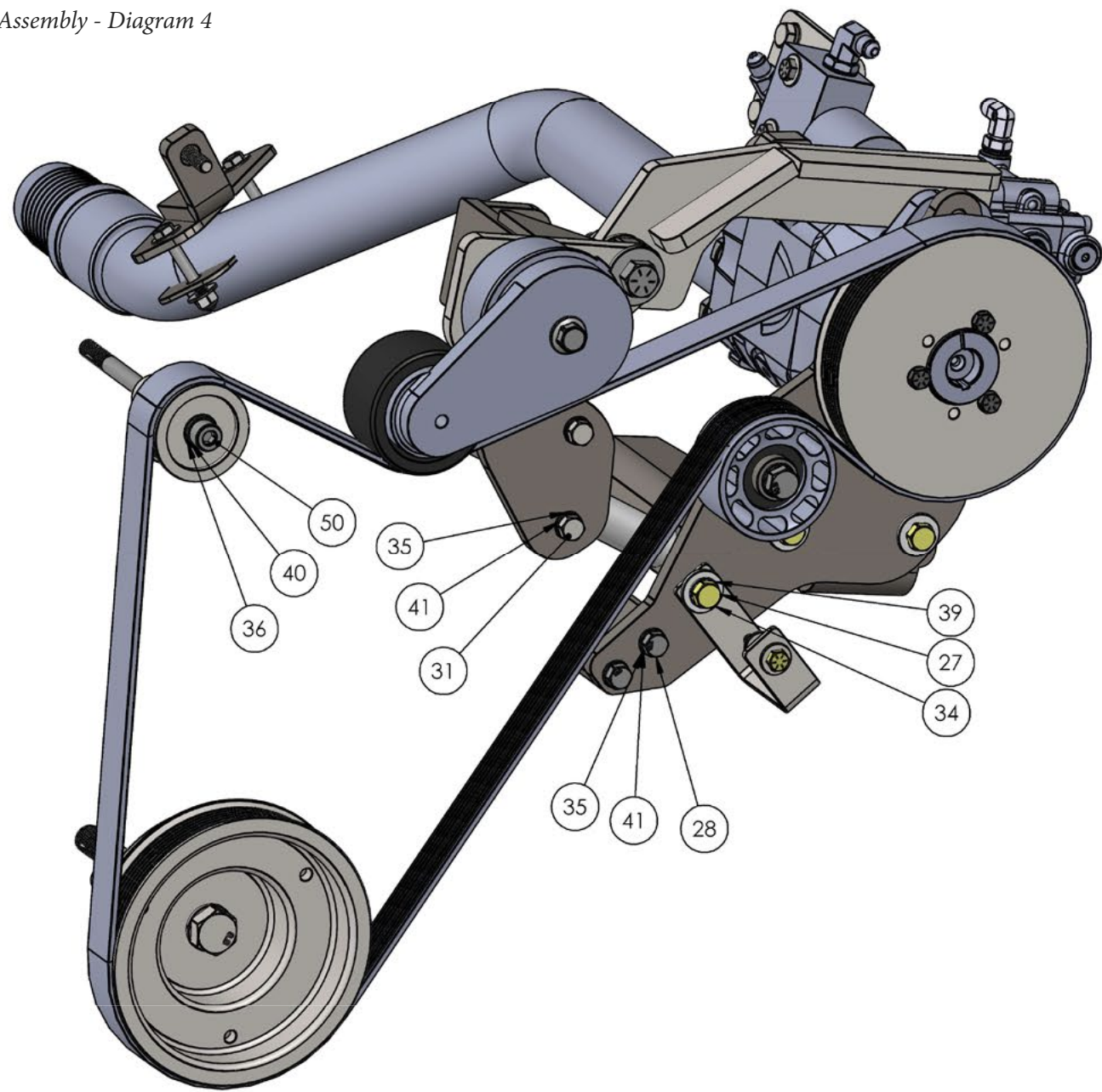
AS-0008 Assembly Engine Diagrams

Rear View - Pump & Belt Assembly - Diagram 3



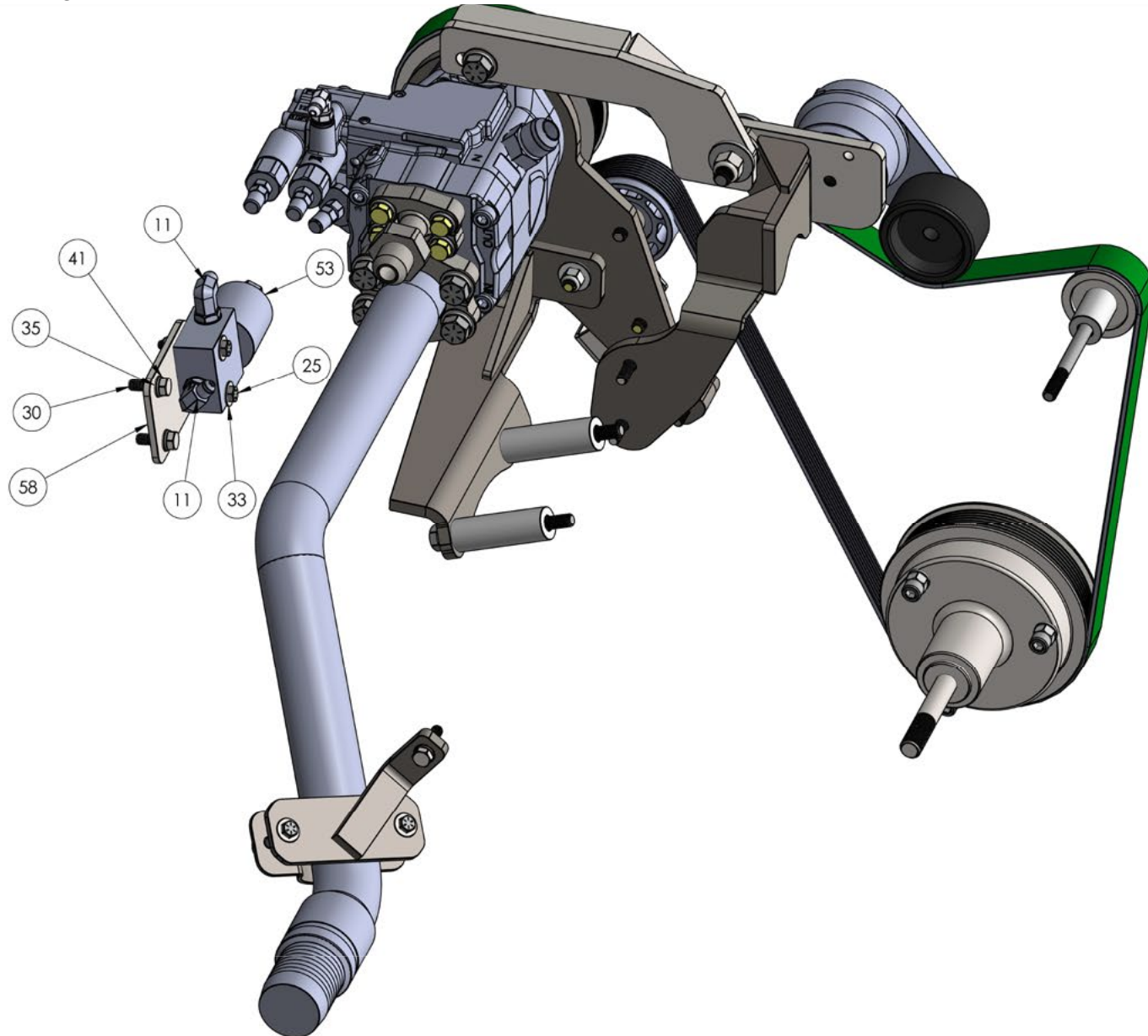
AS-0008 Assembly Engine Diagrams

Passenger Side View - Pump & Belt Assembly - Diagram 4



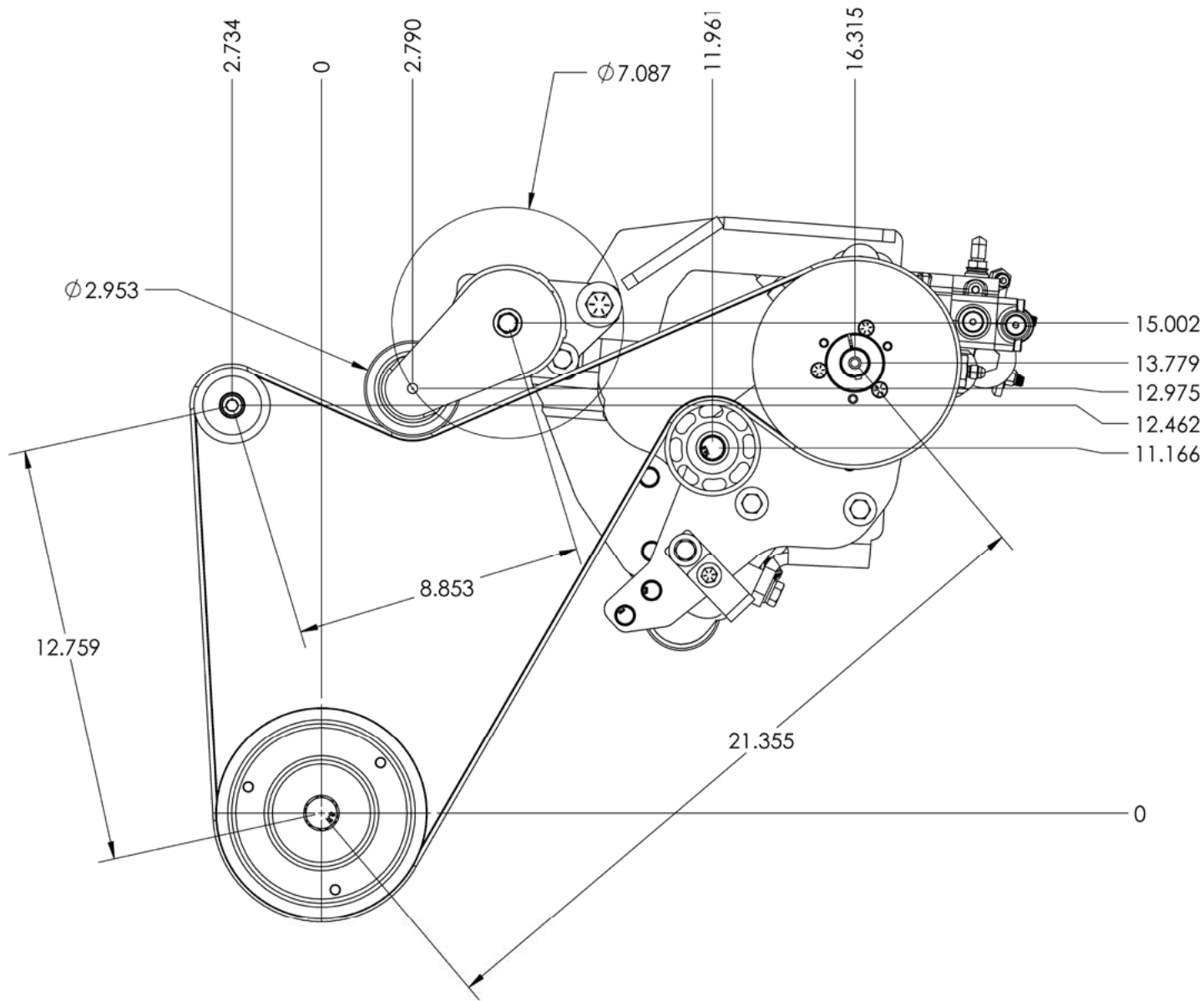
AS-0008 Assembly Engine Diagrams

Rear View 2 - Pump & Belt Assembly - Diagram 5



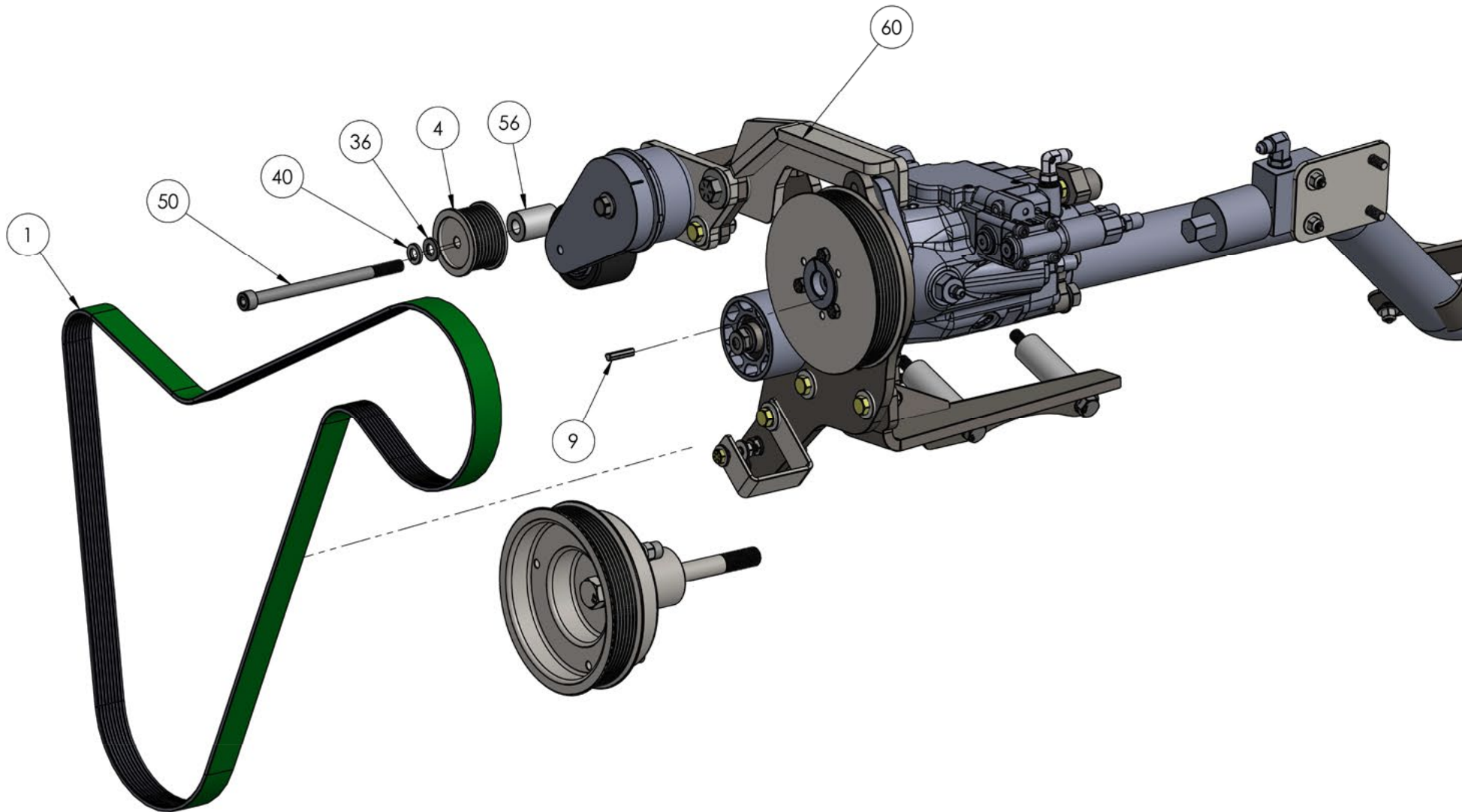
AS-0008 Assembly Engine Diagrams

Belt Routing and Dimensions - Diagram 6



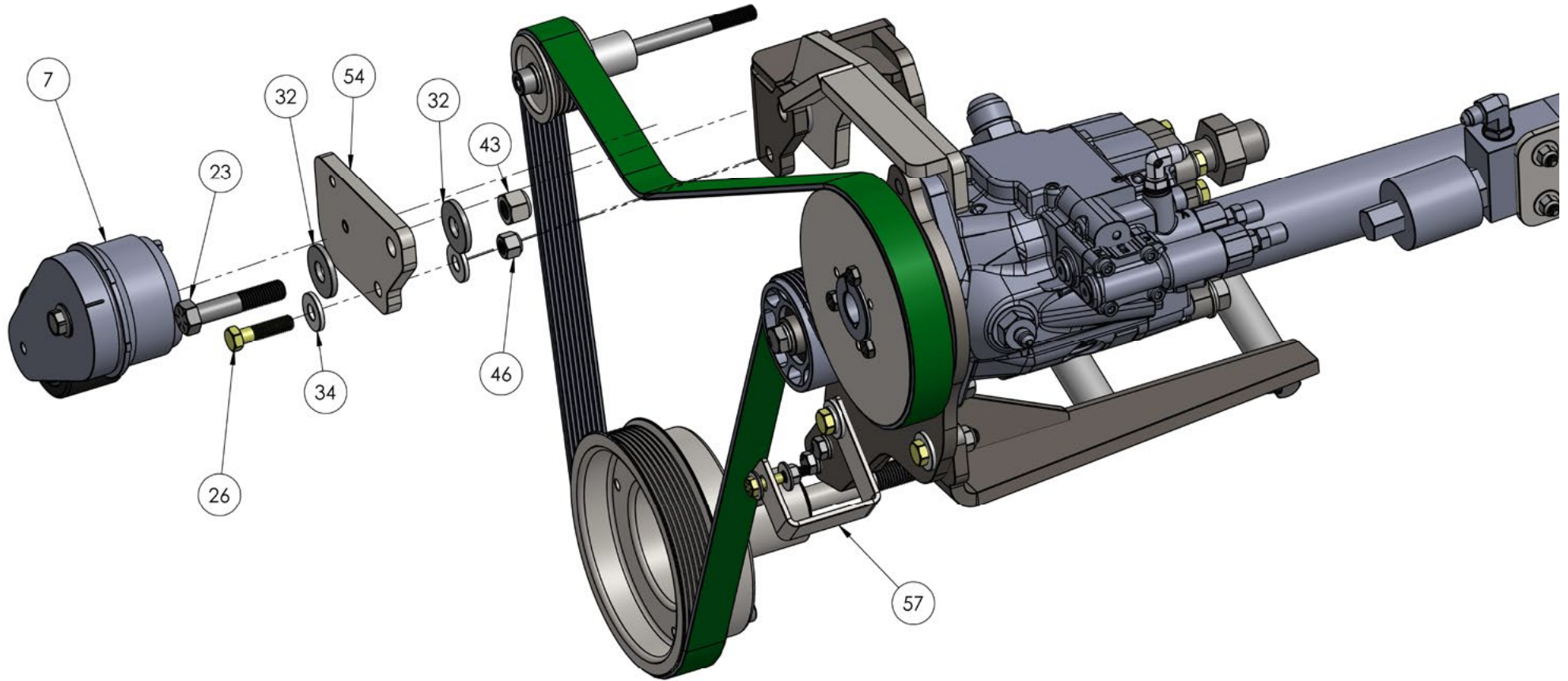
AS-0008 Assembly Engine Diagrams

Exploded View - Grooved Idler Pulley (Alternator) – Diagram 7



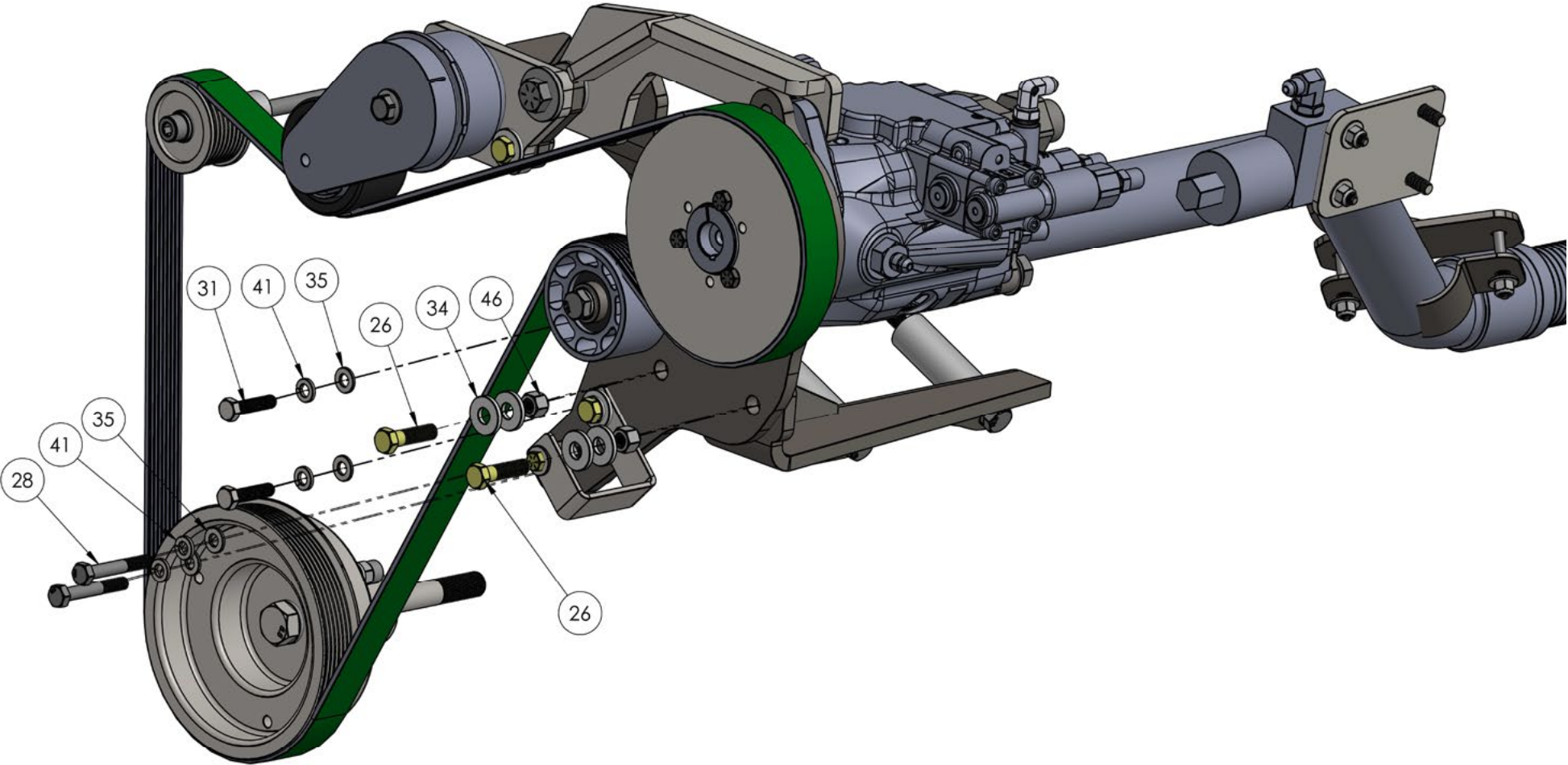
AS-0008 Assembly Engine Diagrams

Exploded View - Tensioner – Diagram 8



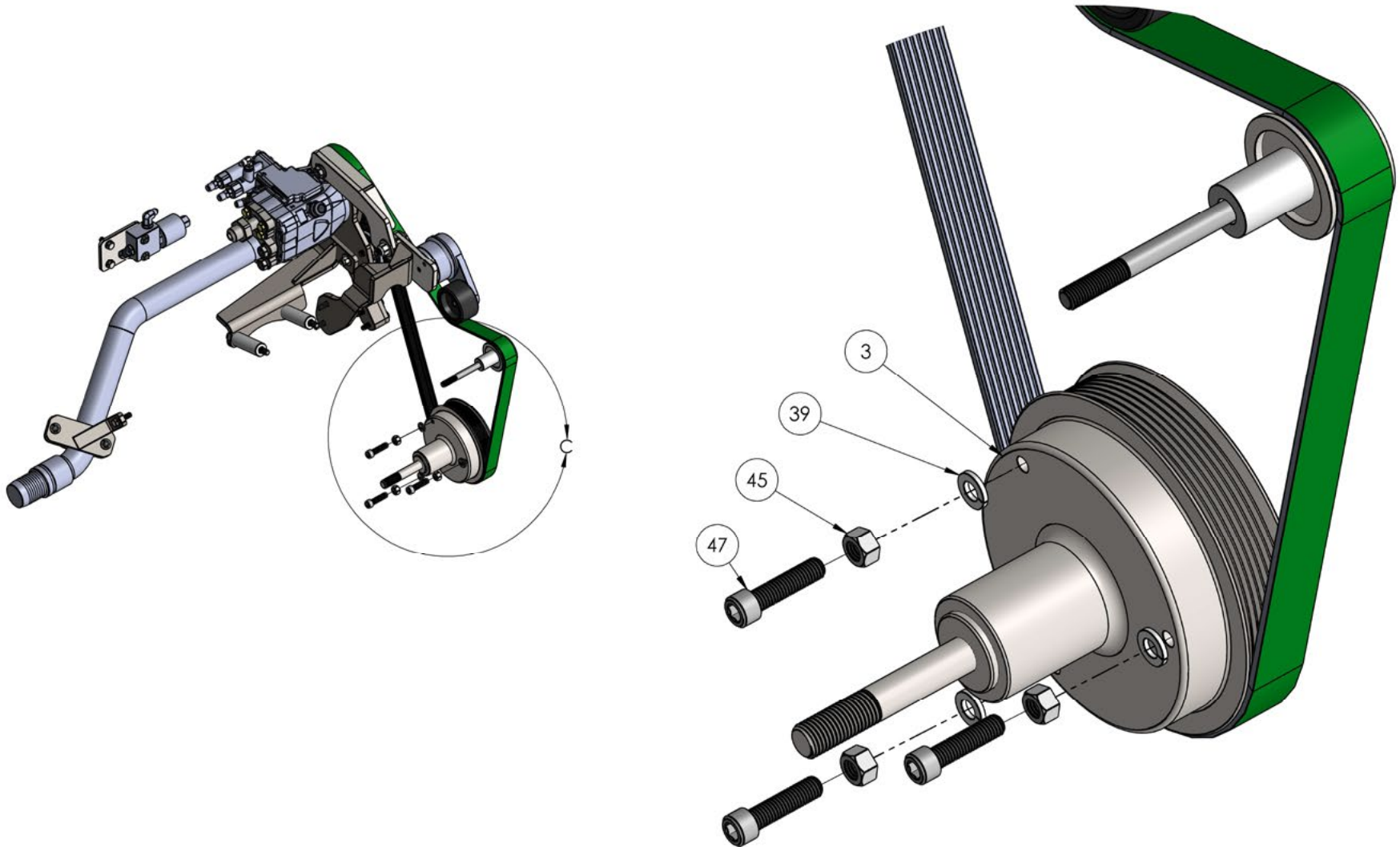
AS-0008 Assembly Engine Diagrams

Exploded View - Pump Mount Hardware - Diagram 9



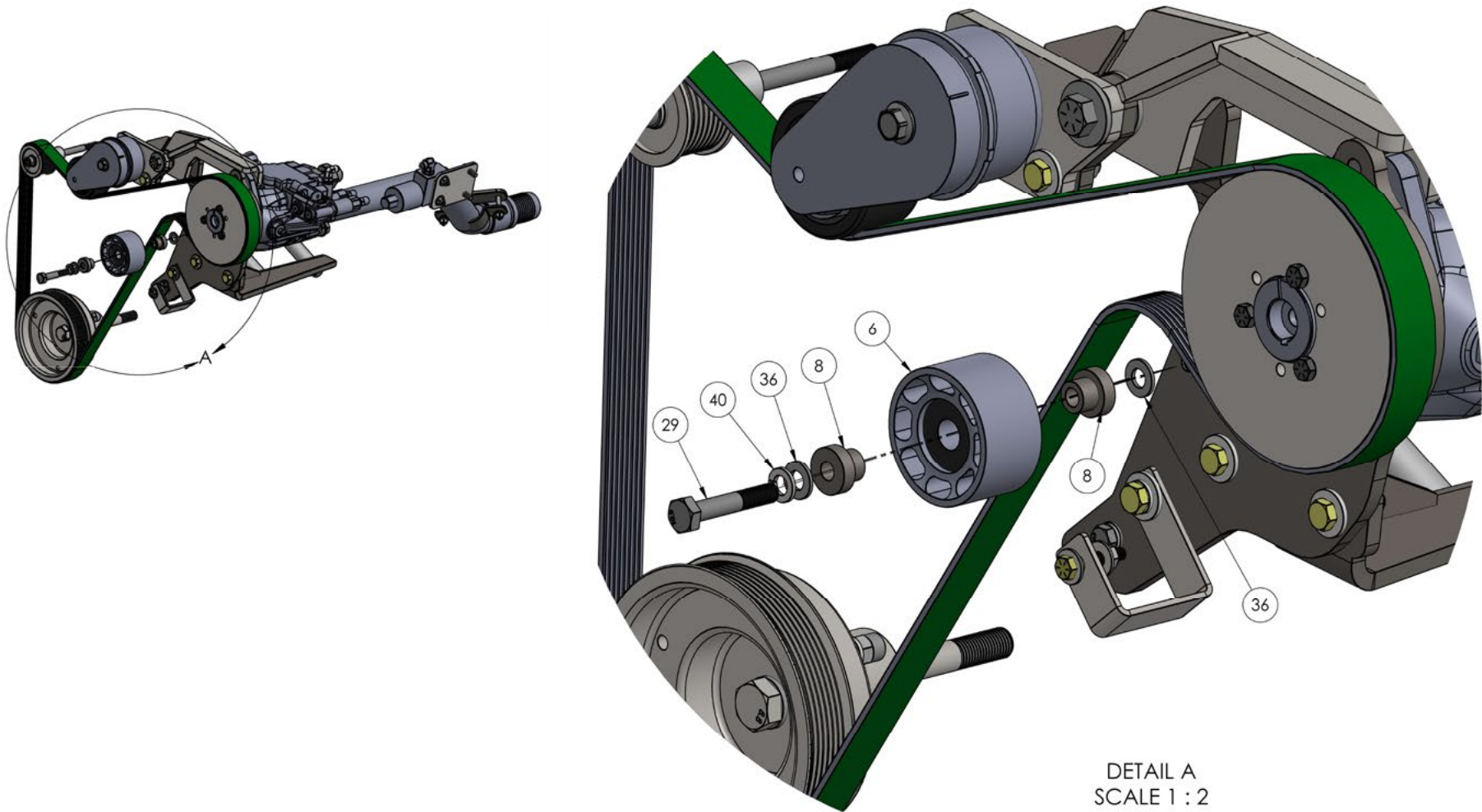
AS-0008 Assembly Engine Diagrams

Exploded View - Crank Pulley – Diagram 10



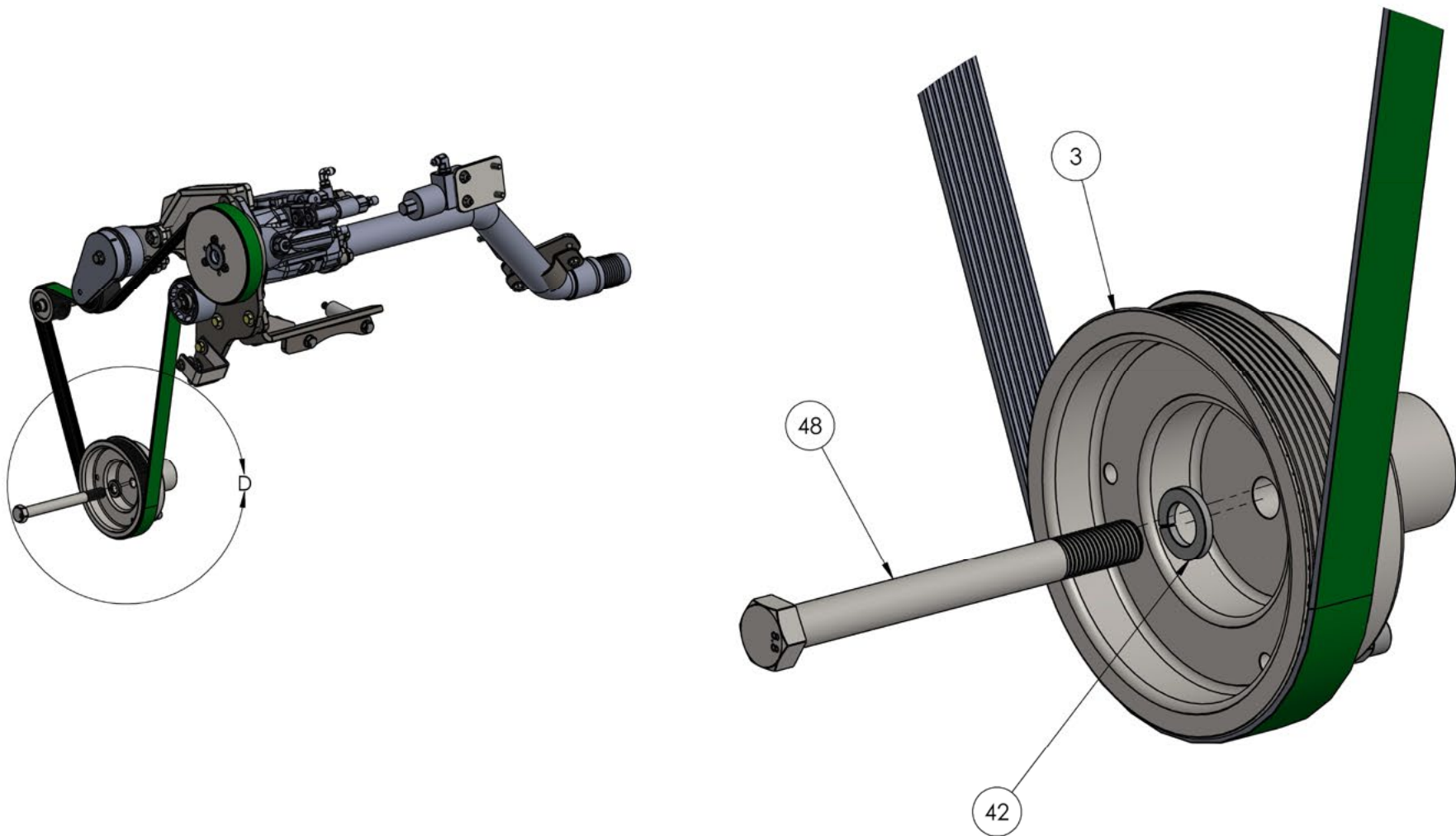
AS-0008 Assembly Engine Diagrams

Exploded View - Smooth Idler Pulley – Diagram 11



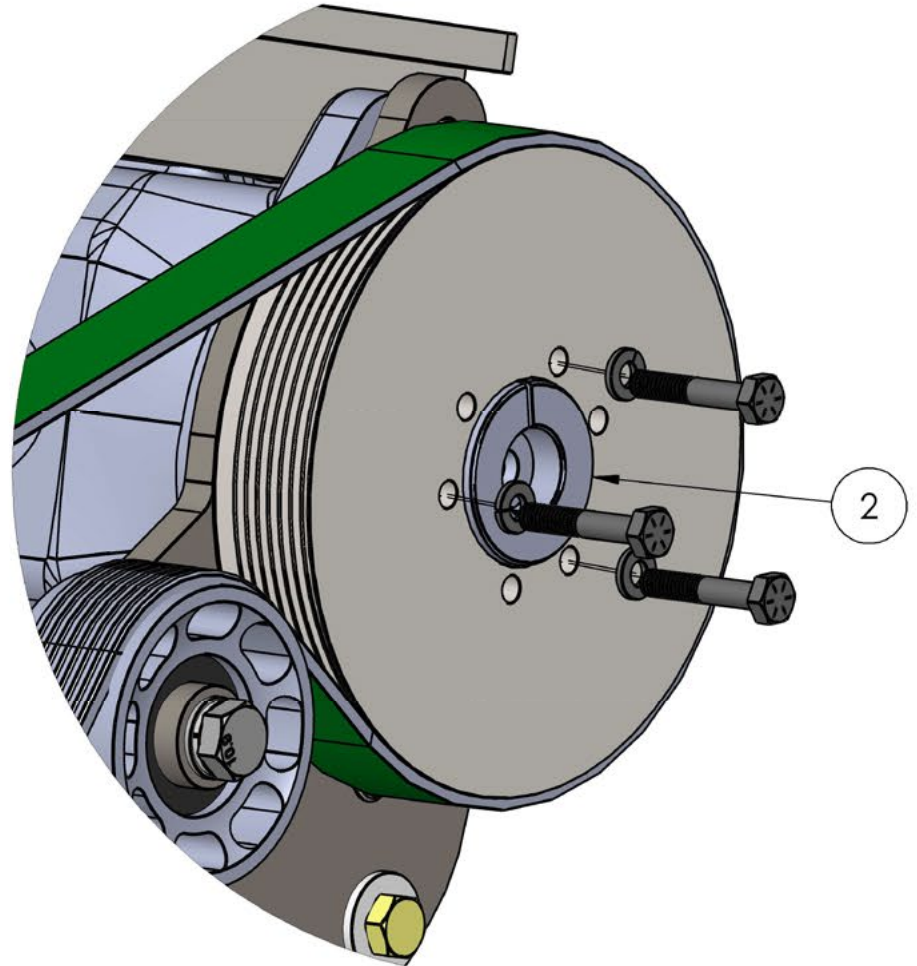
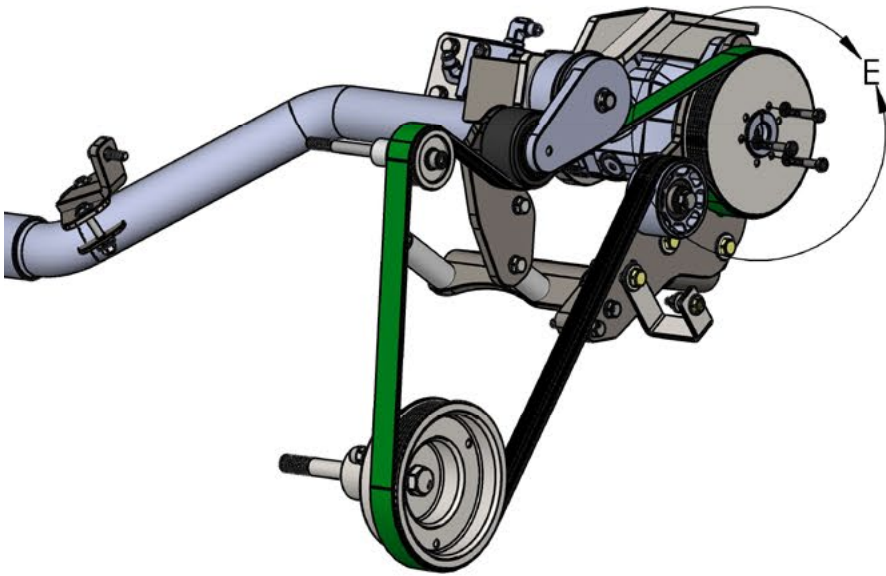
AS-0008 Assembly Engine Diagrams

Exploded View - Crank Pulley Bolt- Diagram 12



AS-0008 Assembly Engine Diagrams

Exploded View - Pump Pulley Hardware - Diagram 13



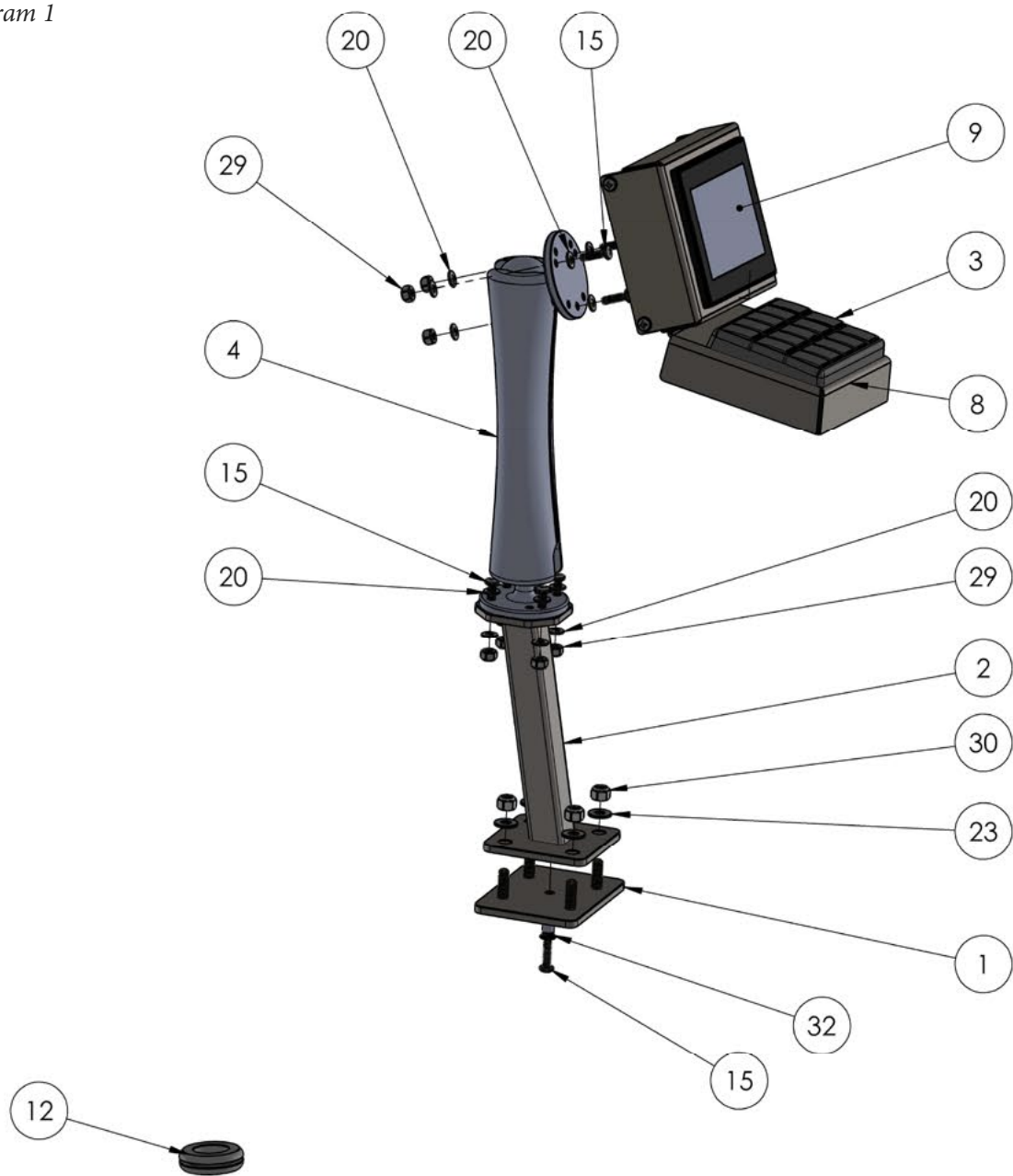
AS-0009 ELECTRICAL & CONTROLS

Item	Part #	Description	Qty
1	CT-1313	DISPLAY PEDESTAL MOUNTING PLATE	1
2	CT-1314	DISPLAY PEDESTAL	1
3	CT-1315	GRAYHILL KEYPAD	1
4	CT-1318	RAM MOUNT RAM-101U-D	1
5	CT-1319	80 AMP BREAKER	1
6	CT-1328	IFM CONTROLLER	1
7	CT-1331	CONTROLLER ADAPTER PLATE IFM	1
8	CT-1333	UNIVERSAL DISPLAY HOLDER	1
9	CT-1334	ENOVATION DISPLAY	1
10	DP-1117	SPOT LIGHT BRACKET	2
11	EL-1413	LIGHT-LED WORK SPOT LIGHT	3
12	EL-1700	GROMMET-1" ID X 1/8	1
13	HW-1021	BOLT-1/4-20 X 1 HEX CAP SCREW	12
14	HW-1038	BOLT 3/8-16-1 1/4 HEX CAP SCREW GR8 Y	4
15	HW-1077	BOLT-10-24 X 3/4 PAN HEAD	8
16	HW-1086	BOLT - 1/4 X 20 X 1 PHILLIPS FLTHEAD SCREW	2
17	HW-1101	BOLT- M5 1.25 X 16 BHSCS-SS	3
18	HW-1102	SPACERS-1/4-20 x 1/4 - NYLON	4
19	HW-1166	BOLT-M8 1.25 X 25 HEX CAP SCREW	1
20	HW-1400	FLAT WASHER-#10	20
21	HW-1403	FLAT WASHER-1/4 USS ZINC	21
22	HW-1405	FLAT WASHER-3/8 USS ZINC	4

Item	Part #	Description	Qty
23	HW-1410	FLAT WASHER-1/4 USS	4
24	HW-1413	FLAT WASHER-M8	1
25	HW-1504	LOCK WASHER-1/4 ZINC	7
26	HW-1505	LOCK WASHER-3/8 ZINC	4
27	HW-1509	M8 LOCKWASHER	1
28	HW-1606	NUT-1/4-20 NYLOCK	11
29	HW-1607	NUT-10-24 NYLOCK SS	7
30	HW-1628	NUT-1/4-20 NYLOCK SS GR5	4
31	HW-1641	NUT-M5-0.8 NYLOCK SS	3
32	HW-1980	RIBBED NUT INSERT-10-24	1
33	IP-1860	ECU BRACKET	1
34	IP-3107	ECU COVER PLATE	1
35	IP-3108	ECU SIDE SUPPORT BEAM	1
36	IP-3111	ECU MOUNTING PLATE	1
37	EL-1248	HARNESS SPOT LIGHT WH10100	1
37	EL-1260	WIRE HARNESS - 5HP OIL COOLER	1
38	EL-1262	INTERIOR WIRING HARNESS	1
39	EL-1386	TRIGGER WIRE CONNECTOR	1
40	EL-1526	HOPPER LIGHTING HARNESS WH10102	1
41	EL-1528	EXTERIOR WIRING HARNESS	1

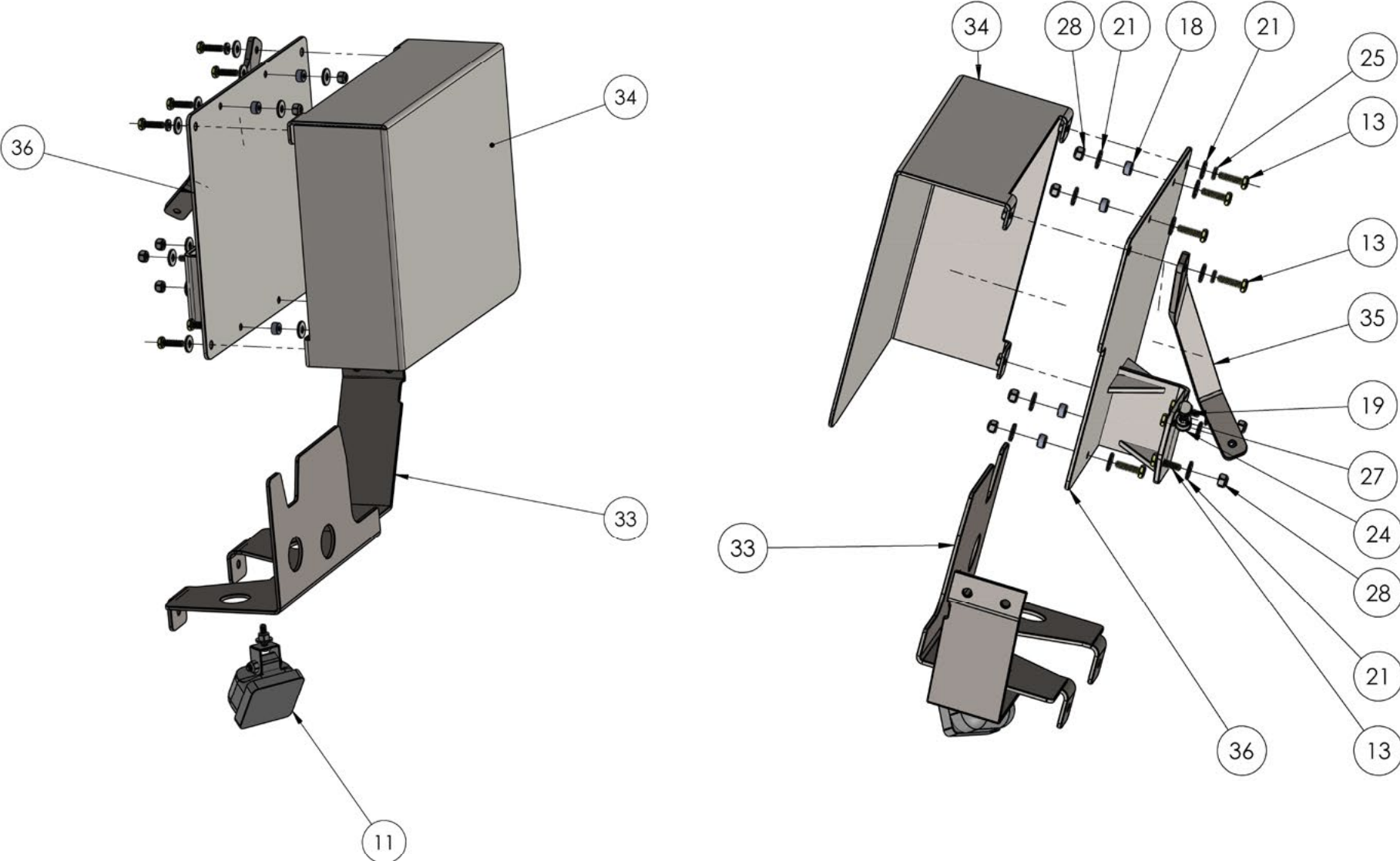
AS-0009 Electrical & Control Diagrams

Driver Side View - Controls Assembly - Diagram 1



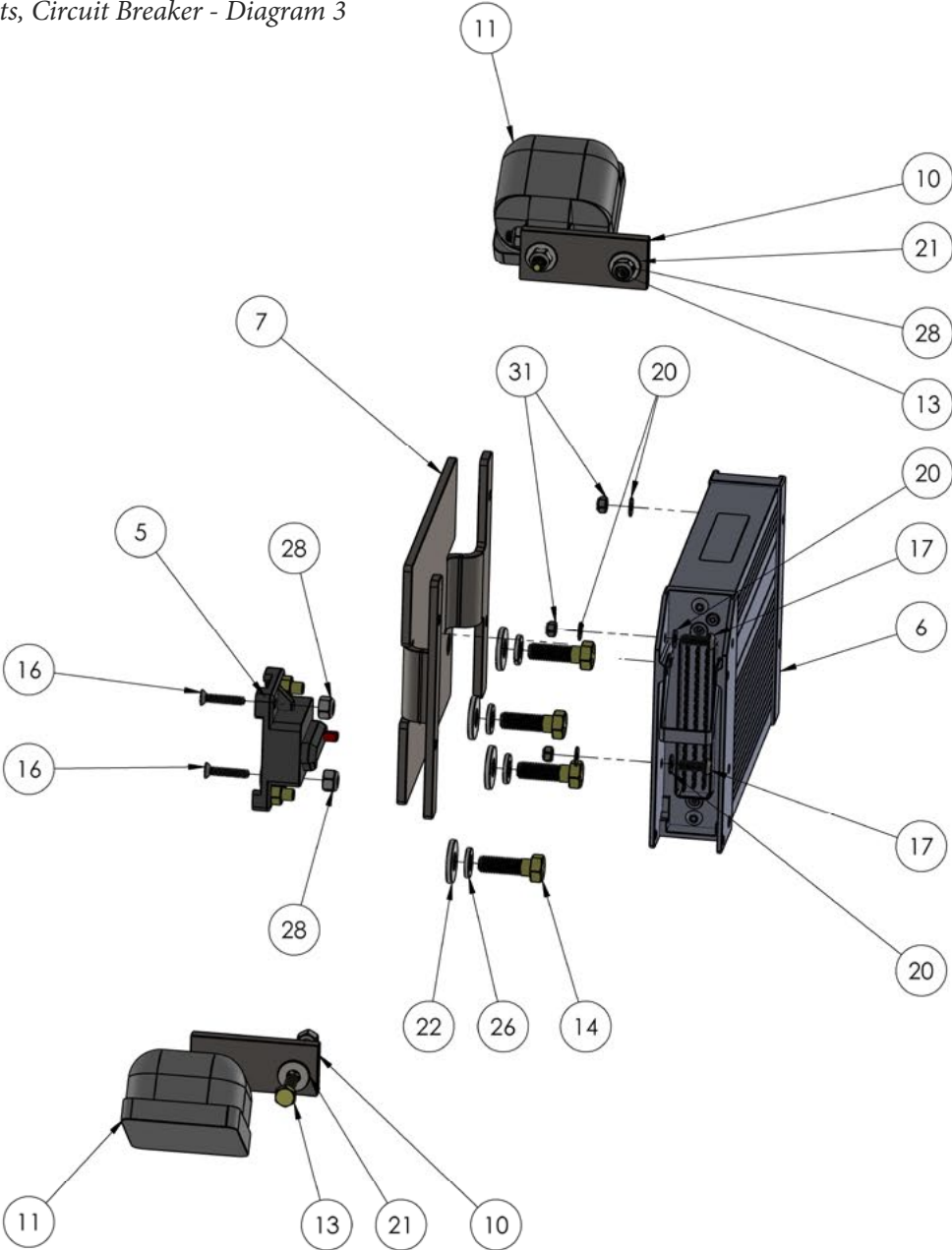
AS-0009 Electrical & Control Diagrams

Exploded View - Engine ECM Bracket & Cover - Diagram 2



AS-0009 Electrical & Control Diagrams

Exploded View - IFM Controller, Side Spotlights, Circuit Breaker - Diagram 3



AS-0009 Electrical & Control Diagrams

Exploded View - Danfoss Controller - Diagram 4

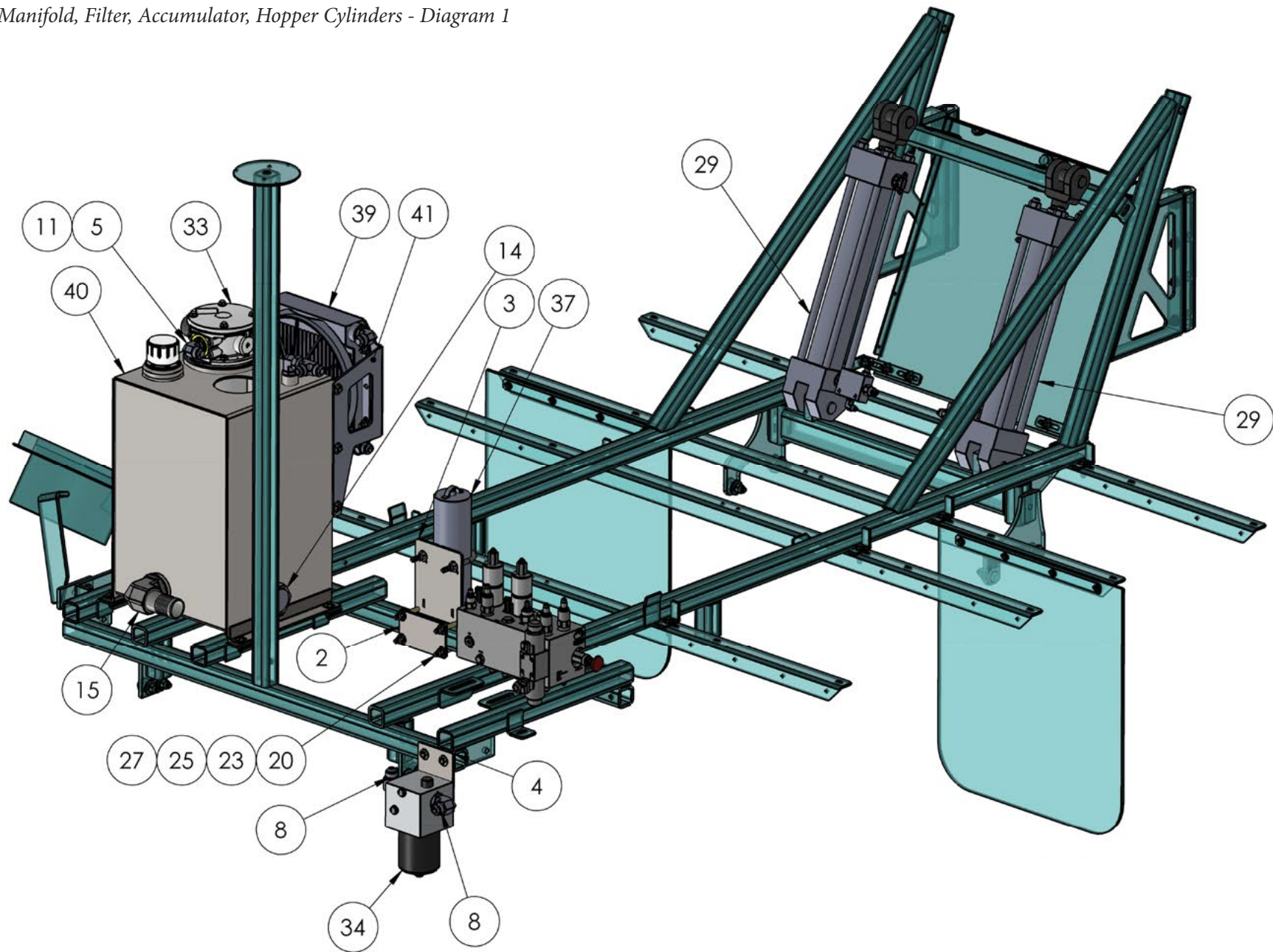
AS-0010 HYDRAULICS

Item	Part #	Description	Qty
1	CB-0997	ACCUMULATOR RUBBER PAD	1
2	CB-9998	ACCUMULATOR CLAMPING PLATE - C	1
3	CB-9999	ACCUMULATOR MOUNT ASSEMBLY	1
4	DP-1118	HIGH PRESS FILTER BRKT - DF40	1
5	FT-1201	HYD FITTING 90-MB-MJ90 12-12	3
6	FT-1202	HYD FITTING 90-MB-MJ90 6-4	1
7	FT-1204	HYD FITTING 90-MB-MJ90-08-08	1
8	FT-1213	HYD FITTING 90-MJ-MB90-12-16	2
9	FT-1505	HYD FITTING MB-MJ 12-12	1
10	FT-1507	HYD FITTING MB-MJ 6-4	2
11	FT-1534	HYD FITTING MB-FB 20-12	1
12	FT-1552	HYD FITTING MJ-MB-8-8	1
13	FT-1553	HYD FITTING MB-MB-6-6	2
14	FT-1559	PLUG MB 32	1
15	FT-1567	HYD FITTING MB-32-BARB-BLACK Z	1
16	FT-1600	HYD FITTING MJ-FJX-MJ-12-12-12	1
17	FT-1606	HYD FITTING 4-4-6	3
18	FT-1612	HYD FITTING MJ-FJX-MJ 4-4-4	1
19	HW-1038	BOLT 3/8-16-1 1/4 HEX CAP SCREW GR8 Y	19
20	HW-1042	BOLT-3/8-16 X 3 1/2 HEX CAP SCREW GR8	4
21	HW-1043	BOLT-3/8-16 X 3 HCS GR8	1
22	HW-1080	BOLT-M10-1.5 X 140 HCS 8.8	2

Item	Part #	Description	Qty
23	HW-1405	FLAT WASHER-3/8 USS ZINC	42
24	HW-1414	FLAT WASHER-M10	4
25	HW-1505	LOCK WASHER-3/8 ZINC	24
26	HW-1507	M10 LOCKWASHER	2
27	HW-1614	NUT-3/8-16 NYLOCK ZINC GR5	22
28	HW-1632	NUT-M10 NYLOCK	2
29	HY-1005	CYLINDER-3 X 18	2
30	HY-1162	HPS MANIFOLD-RAPTOR 3500 PSI	1
31	HY-1203	FILLER BREATHER-ANTI SPLASH	1
32	HY-1252	10" SIGHT GAUGE	1
33	HY-1302	FILTER - HOUSING RETURN	1
34	HY-1354	FILTER-HOUSING-PRESSURE 3500 P	1
35	HY-1760	VALVE-ECI CONTERBALANCE BLOCK	2
36	HY-1761	VALVE-CBCA -LHN COUNTERBALANCE	2
37	HY-1850	ACCUMULATOR	1
38	HY-1851	ACCUMULATOR U-BOLT	1
39	HY-1900	OIL COOLER-13X13	1
40	RS-2005	RESERVOIR ASSEMBLY FOR COOLER	1
41	RS-2027	RESERVOIR COOLER BRACKET 5HP	1
42	ST-1214	TAG-"WARNING" DUMP KNOB	1

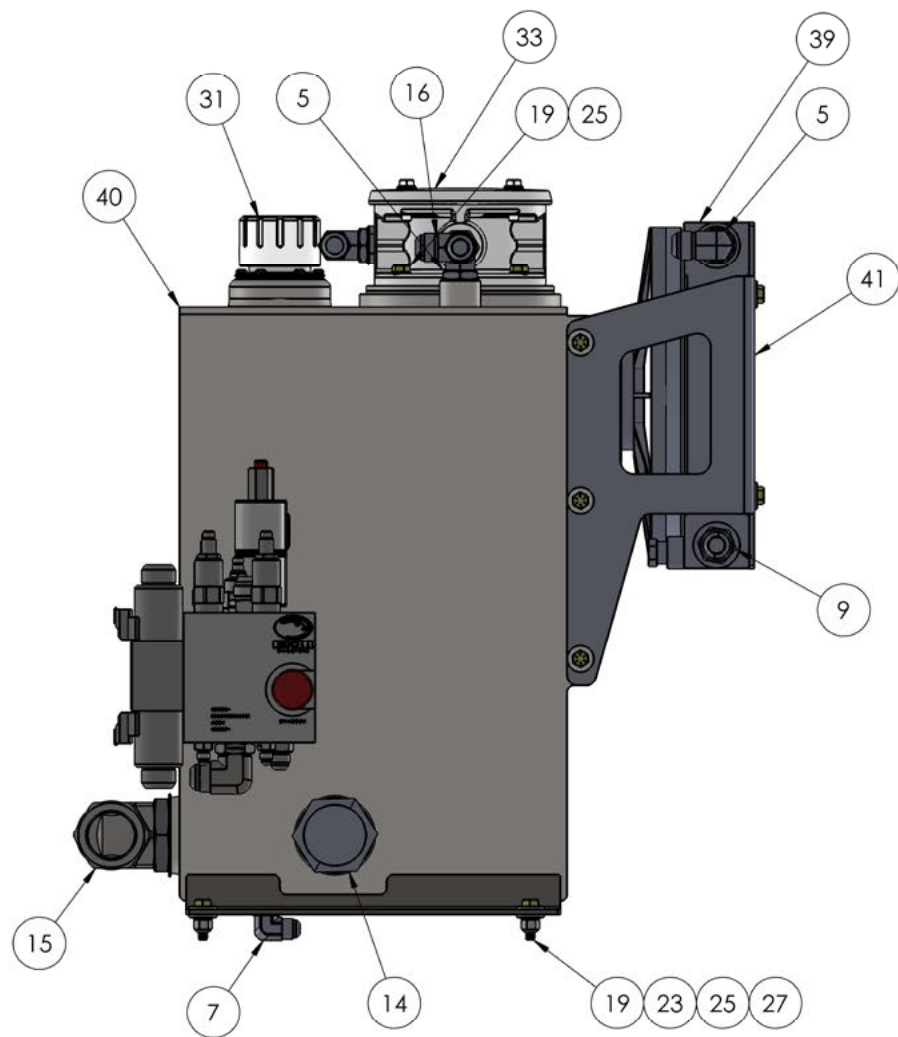
AS-0010 Hydraulic Diagrams

Reservoir, Manifold, Filter, Accumulator, Hopper Cylinders - Diagram 1

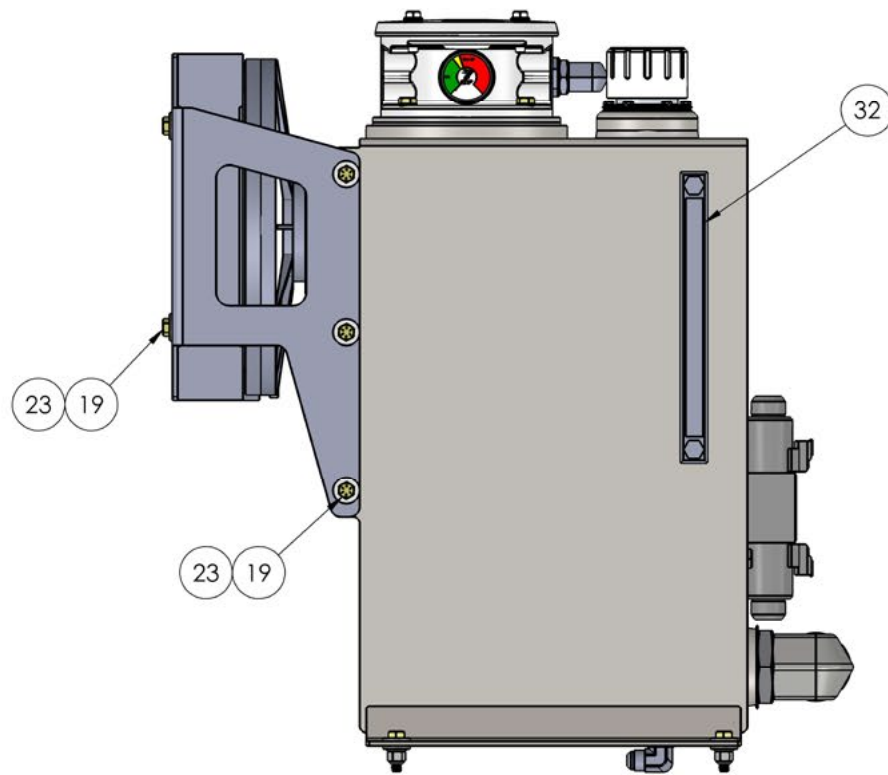


AS-0010 Hydraulic Diagrams

Side Views - Reservoir Assembly - Diagram 2



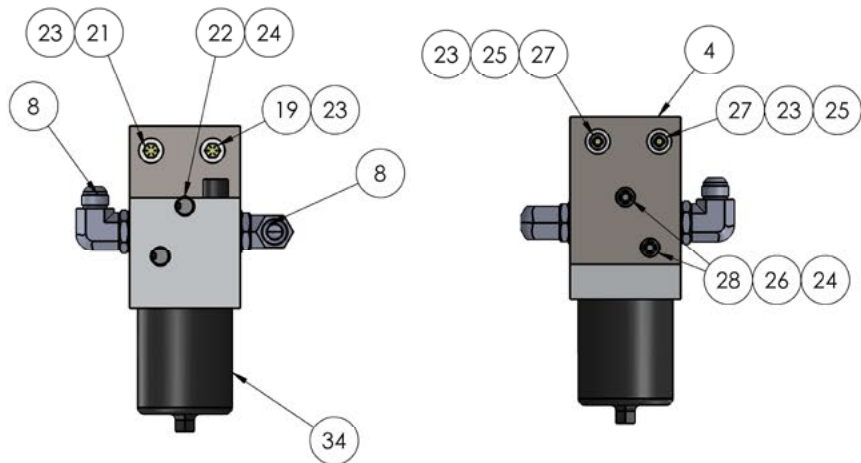
VIEW FROM DRIVER'S SIDE OF TRUCK



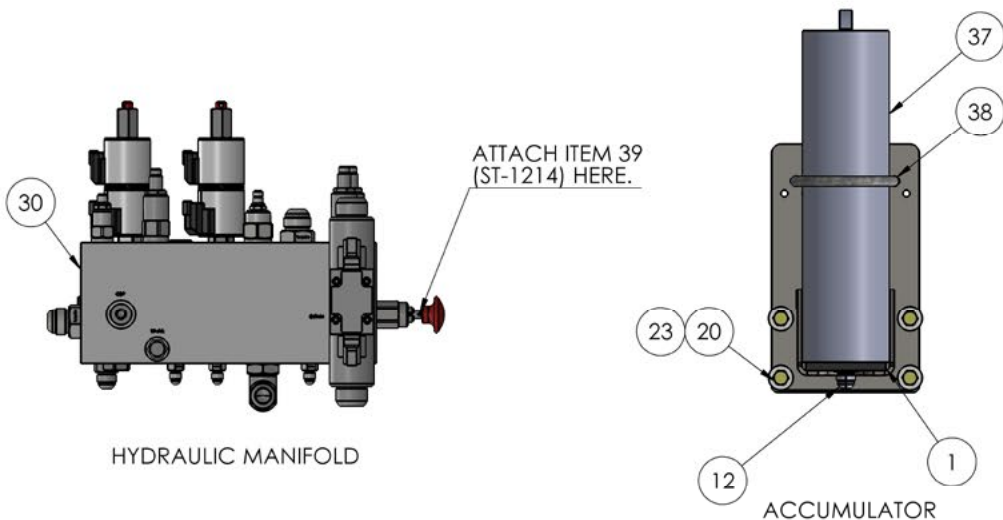
VIEW FROM PASSENGER'S SIDE OF TRUCK

AS-0010 Hydraulic Diagrams

Front View - Filter, Mainfold, Accumulator, Hopper Cylinders - Diagram 3

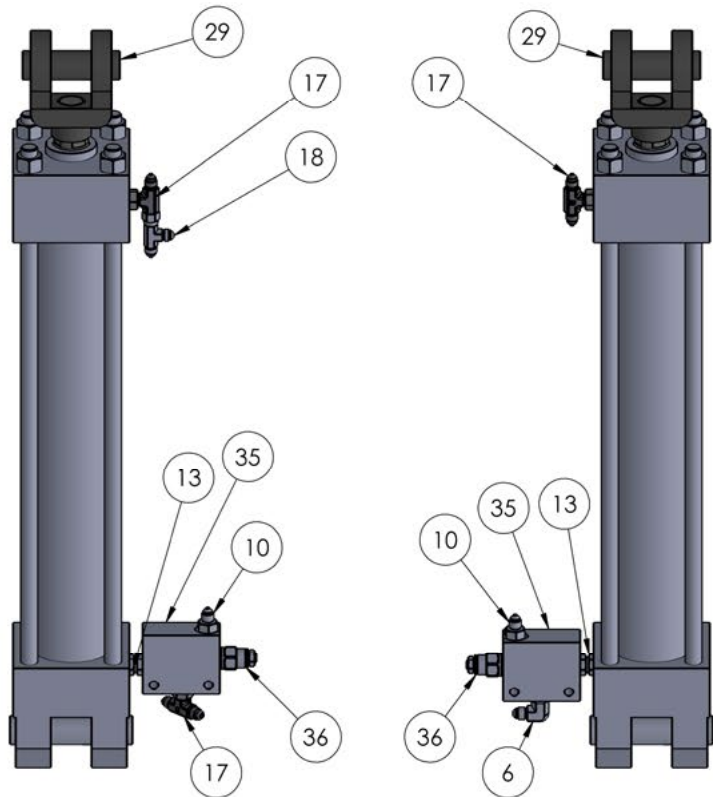


HIGH PRESSURE FILTER (FRONT & BACK)



HYDRAULIC MANIFOLD

ACCUMULATOR



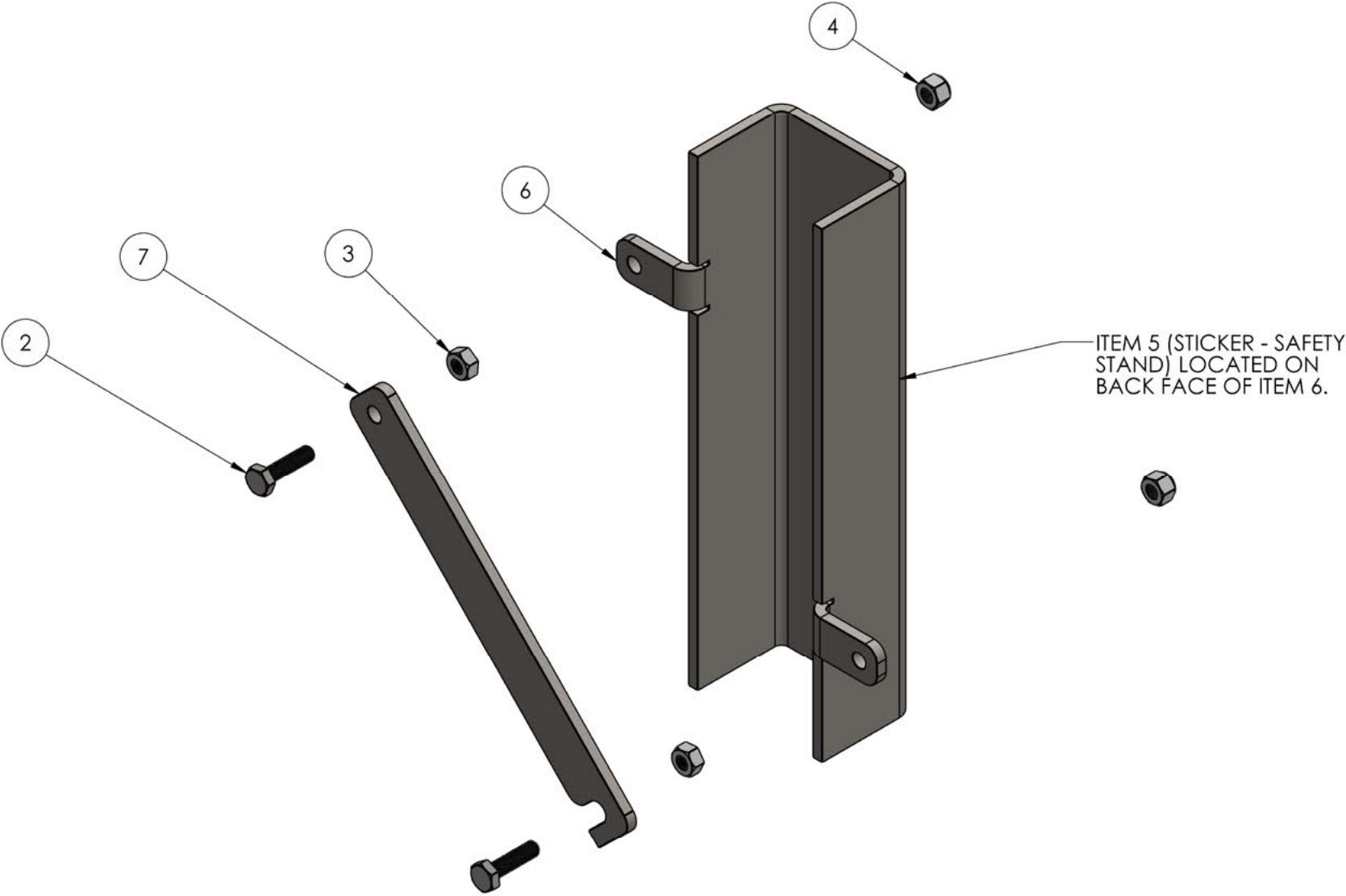
HOPPER LIFT CYLINDERS

AS-0011 DELIVERY KIT

Item	Part #	Description	Qty
1	AV-1101	BAG-NITEHAWK	1
2	HW-1076	BOLT-1/4-20 X 1 HEX CAP SCREW	2
3	HW-1605	NUT-14-20 HEX NUT ZINC GR5	2
4	HW-1606	NUT-1/4-20 NYLOCK	2
5	ST-1206	STICKER - SAFETY STAND - D871	1
6	ST-2350	SAFETY STAND SHELL	1
7	ST-2351	SAFETY STAND LATCH	1

AS-0011 Delivery Ki Diagrams

Safety Stand - Diagram 1





19713 58th Place South Kent, WA 98032

Toll Free: 1.800.448.9364 | Main Office: 253.872.2077 | Fax: 253.872.0772

info@nitehawksweepers.com | www.nitehawksweepers.com