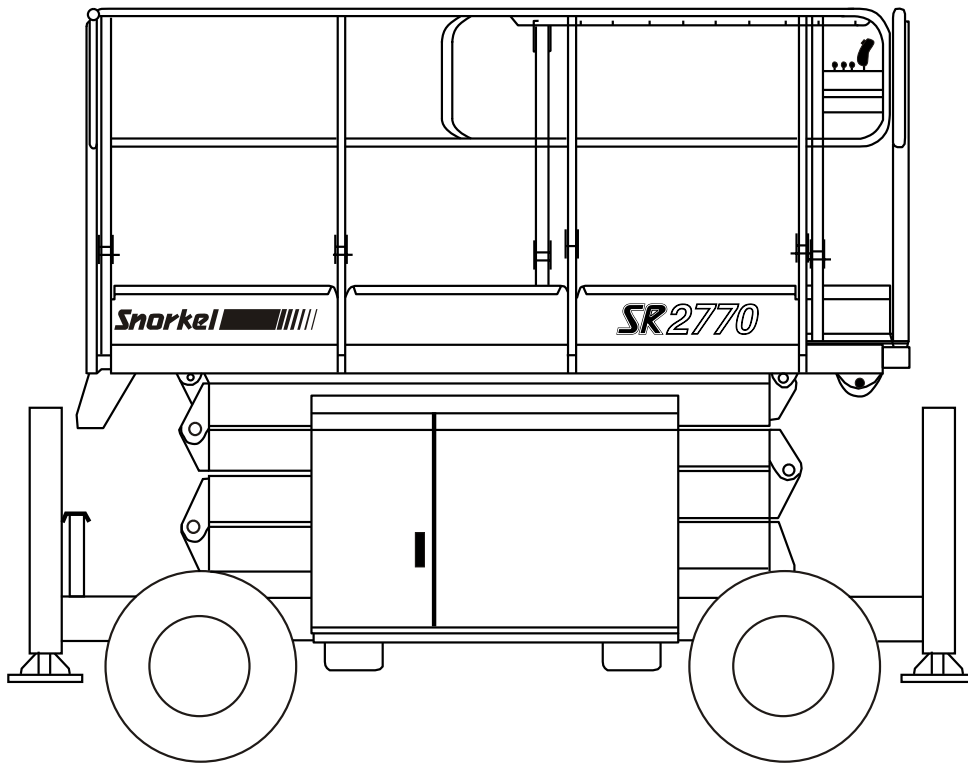




SR2770



MAINTENANCE and REPAIR PARTS
MANUAL

Part Number 11669B
December 2005

Engine Powered – Gasoline/Diesel/LPG

Rev B

GENERAL INFORMATION

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MAINTENANCE

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■ General Specifications

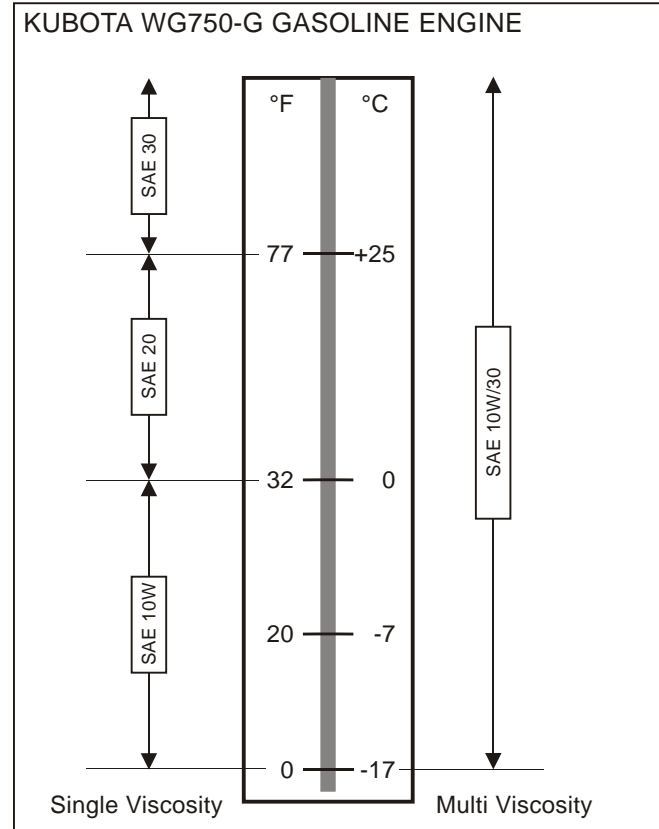
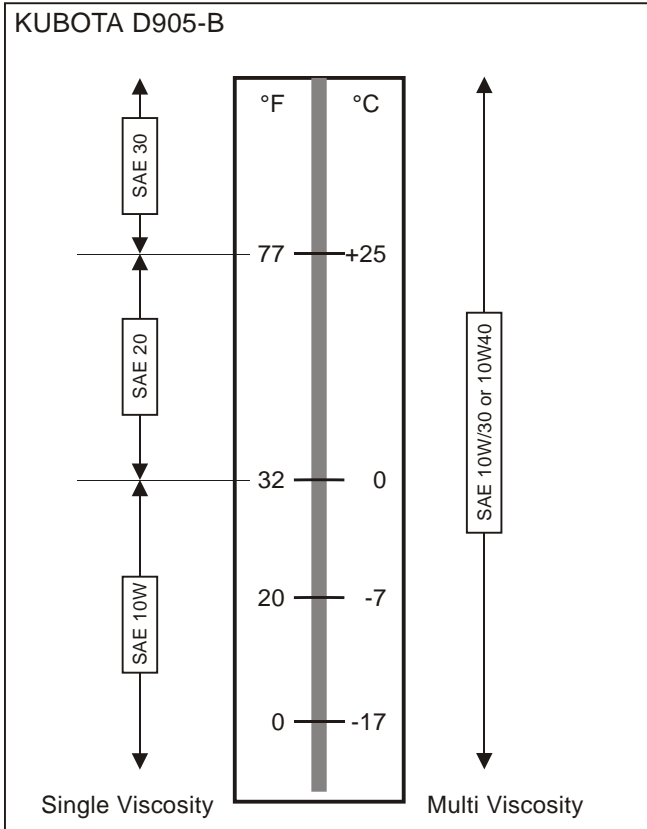
SPECIFICATIONS	SR2770	
Nominal working height	10.28m	33' 9"
Maximum height to basket floor	8.28m	27' 2"
Maximum outreach	1200mm with roll out deck	
Speed (when raised)	0 to 1kph	0 to 0.64mph
Speed (maximum drive)	0 to 4.5kph	0 to 2.8mph
Maximum width of base	1.77m	5' 9"
Safe working load - Main deck (Roll out deck not extended)	580kg	1280lbs
Safe working load - Main deck Roll out deck extended - R/O deck	460kg 120kg	1015lbs 265lbs
Standard colour	White platform. Orange scissors and base	
Platform size*	2.73 x 1.65m	8' 11" x 5' 5"
Collapsed height	1.7m	5' 8"
Overall length (with stabilizers)	3.36m	11' 0"
Gradeability	35%	
Lift time	26 seconds	
Lower time	35 seconds	
Turning radius (inner)	2.83m	9' 3"
Turning radius (outer)	4.6m	15' 1"
Insulation rating	Nil	
Overall weight	2800kg	6272lbs
Ground clearance	370mm	14.6"

■ Engine Data

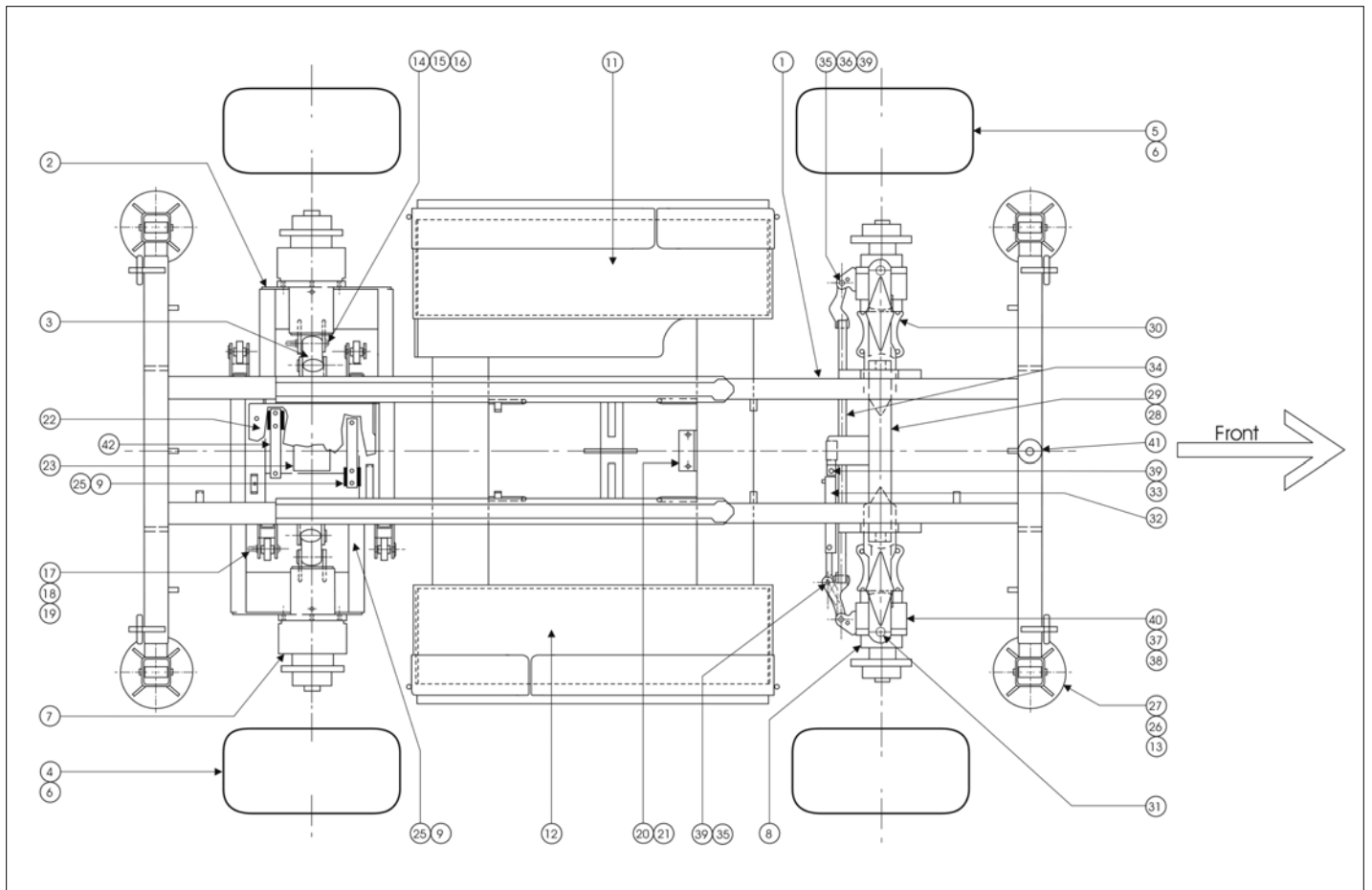
ENGINE MAKE	KUBOTA(gasoline)	KUBOTA (LPG)	KUBOTA (diesel)
Model	WG750-G		D905-B
Fuel	gasoline	LPG	diesel no. 2-D
Fuel Grade	Unleaded 85 octane (motor method) Do not use gasoline blended with methyl alcohol.	HD5 Gas Processors Association Standard 2140 Category: special dual propane	ASTM no. 2-D ASTM D975 centane no. > 44 (For operating temp. below 32°F (0°C) use "winterized" no. 2-D.)
Coolant	50% water + 50% ethylene glycol		
Operating Temperature	180°F - 205°F(82°C - 96°C)		
Oil Capacity	3.5 qt USA (3.25 liters)		5.2 qt USA (5.1 liters)
Oil Grade	API: SF, SF/CD		API: C/CD/CE
Oil Weight	see chart below		
Running Time (one tank of fuel)	A full tank of gasoline or diesel, will last an entire eight hour shift, under normal working conditions. It normally takes two tanks of LPG per eight hour shift.		

General Specifications

■ Engine Oil Charts



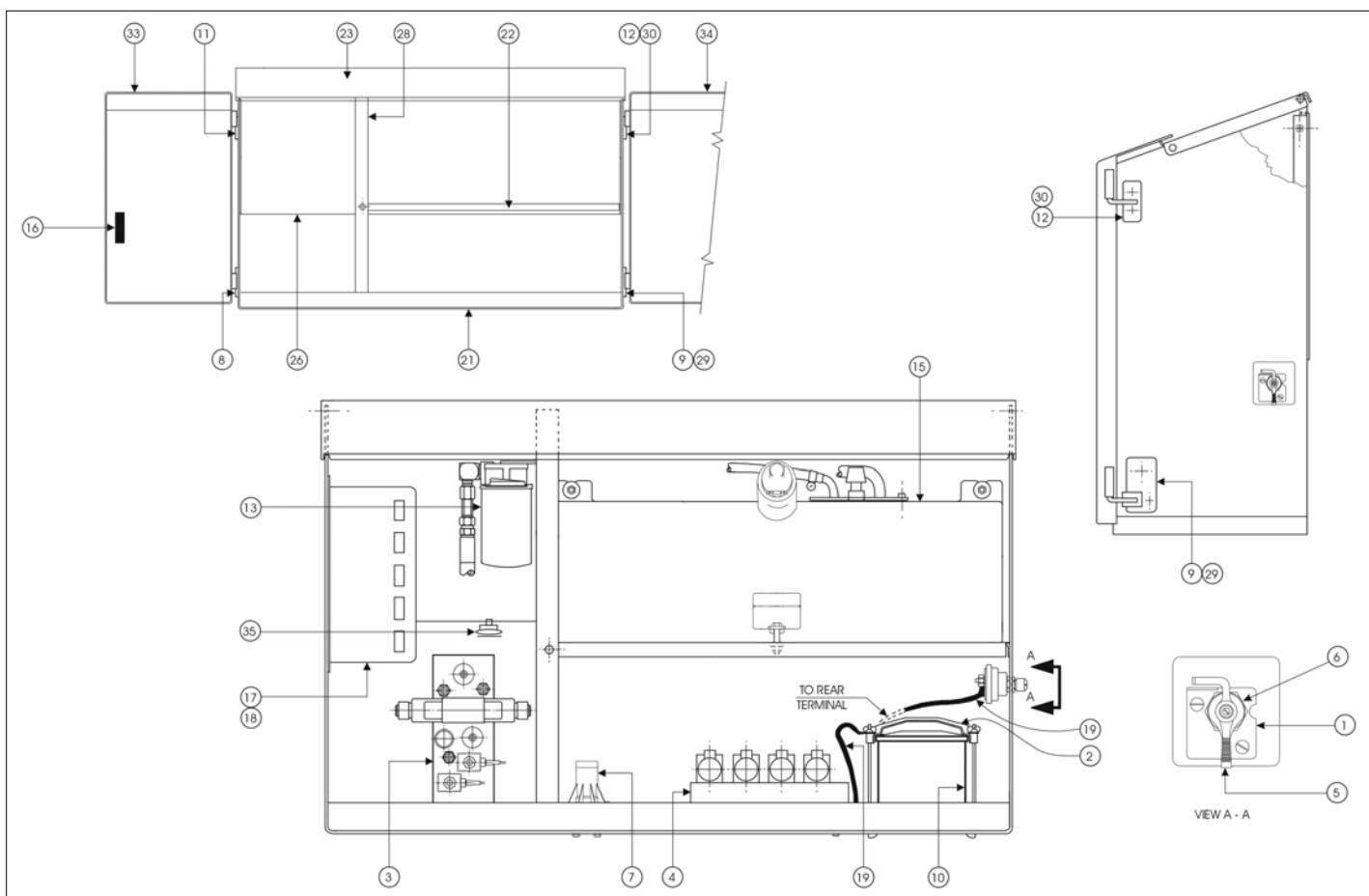
REPAIR PARTS



Item	Part No.	Name	Qty	Uom
0.	11628	CHASSIS ASSEMBLY	Ref	EA
1.	11663	BASE WELD	1	EA
2.	11639	SWING ARM WELD, FLOATING AXLE	2	EA
3.	11642A	Axle Cylinder Assembly	2	EA
4.	608934	WHEEL AND TYRE ASSEMBLY, RIGHT HAND	2	EA
5.	608914	WHEEL AND TYRE ASSEMBLY, LEFT HAND	2	EA
6.	98300-9	Wheel Nut	24	EA
7.	11600A	WHEEL MOTOR, BRAKED	2	EA
8.	11601A	WHEEL MOTOR ASSEMBLY, STEER	2	EA
9.	560248A	LIFT LIMIT SWITCH	2	EA
11.	11647A	ENGINE SIDE TRAY ASSEMBLY	1	EA
12.	11641	TRAY ASSEMBLY, HYDRAULIC AND ELECTRICAL	1	EA
13.	560278	MAGNETIC PROXIMITY SWITCH	4	EA
14.	3616-16140	Metric Bolt Grade 10.9	4	EA
15.	3608-16c	CONELOK NUT, M16	4	EA
16.	3603-16HD	Plain Washer	12	EA
17.	3616-12100	Metric Bolt, Grade 10.9	4	EA
18.	3608-12c	CONELOK NUT, M12	4	EA
19.	3603-12HD	Plain Washer	8	EA
20.	11662-1	CLAMP BAR	1	EA
21.	11662-2	RUBBER PACKING	2	EA
22.	11683	COVER, DRIVE VALVE	1	EA
23.	11618A	4 WHEEL DRIVE MANIFOLD BLOCK ASSEMBLY	1	EA
Not Shown	11617A	2WD VALVE ASSEMBLY	1	EA
25.	11359	LOOM, AXLE CYLINDER	1	EA

Item	Part No.	Name	Qty	Uom
26.	56024-6	LOOM	1	EA
27.	PNNA	STABILISER ASSEMBLY (REFER PAGE 1 - 16)	1	EA
28.	11595A	4WD STEER AXLE ASSEMBLY	Ref	EA
29.	11595-1	AXLE MEMBER SUBWELD	1	EA
30.	11595-2	BEARING SUPPORT, LOWER	2	EA
31.	3626-1	Flanged Permaglride Bush	4	EA
32.	11699	Steer Cylinder	1	EA
33.	9311	Pin 5/8" x 53 lg	1	EA
34.	11591	STEERING TIE ROD WELD	1	EA
35.	9319	Pin 15 x 56 lg	3	EA
36.	3624-27	Permaglride Bush	3	EA
37.	3616-12060	Metric Bolt Grade 10.9	8	EA
38.	3603-12H	Plain Washer	8	EA
39.	8628	Pin Keeper	4	EA
40.	11590	Swivel Housing, Kingpin	2	EA
41.	11796	LEVEL BUBBLE	1	EA
42.	11794	MOUNTING BRACKET	2	EA

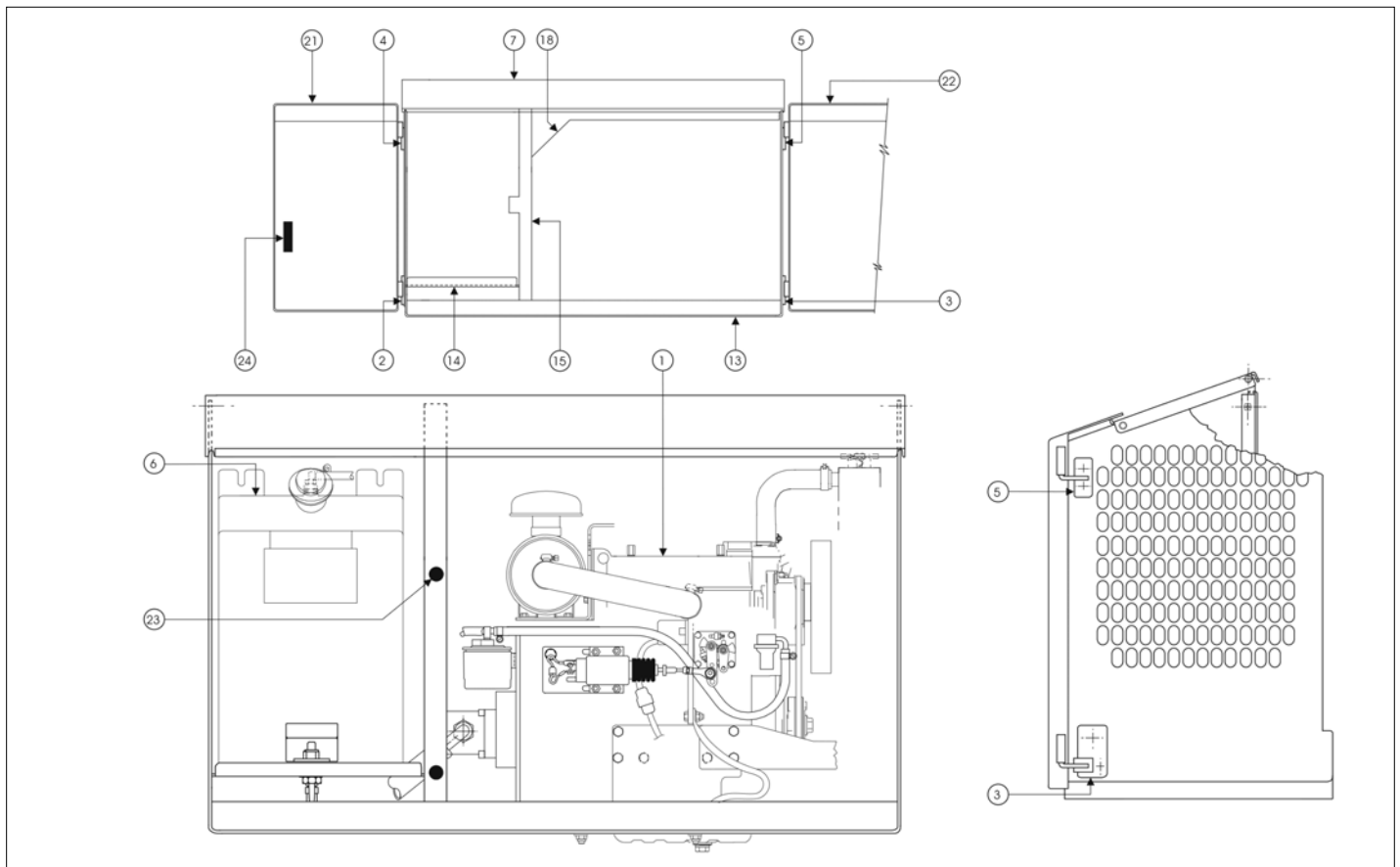
REPAIR PARTS



Item	Part No.	Name	Qty	Uom
0.	11641	TRAY ASSEMBLY, HYDRAULIC AND ELECTRICAL	1	EA
1.	0102006	Decal Battery Disconnect	1	EA
2.	010268-1	HOLD DOWN BRACKET, BATTERY	1	EA
3.	11615A	MAIN MANIFOLD ASSEMBLY	1	EA
4.	11616A	STABILISER VALVE ASSEMBLY	1	EA
5.	300840	Lock Out Lever Assembly	1	EA
6.	302-0049	Switch Battery Disconnect	1	EA
7.	3020139	LEVEL SENSOR	1	EA
8.	11469	LEFT HAND HINGE WELDMENT, LOWER	1	EA
9.	11469-1	RIGHT HAND HINGE WELDMENT, LOWER	1	EA
10.	11596	Battery 12V	1	EA
11.	11470	LEFT HAND HINGE WELDMENT, UPPER	1	EA
12.	11470-1	RIGHT HAND HINGE WELDMENT, UPPER	1	EA
13.	11649	HYDRAULIC OIL RETURN FILTER ASSEMBLY	1	EA
15.	11558	Hydraulic Tank Assembly	1	EA
16.	8342416-3	Latch - Adjustable Trigger, Key 508CH	1	EA
17.	560222	GROUND BOX, COMPLETE	1	EA
18.	560240	DECAL, GROUND CONTROL	1	EA
19.	3649-4	BATTERY CABLE ASSEMBLY	2	EA
21.	PNNA	BASE PANEL SUBWELD	1	EA
22.	11646-3	HYDRAULIC OIL TANK SHELF	1	EA
23.	11646-4	TOP PLATE	1	EA
26.	11646-7	BACK PLATE	1	EA
28.	11646-9	REINFORCEMENT ANGLE WELD	1	EA

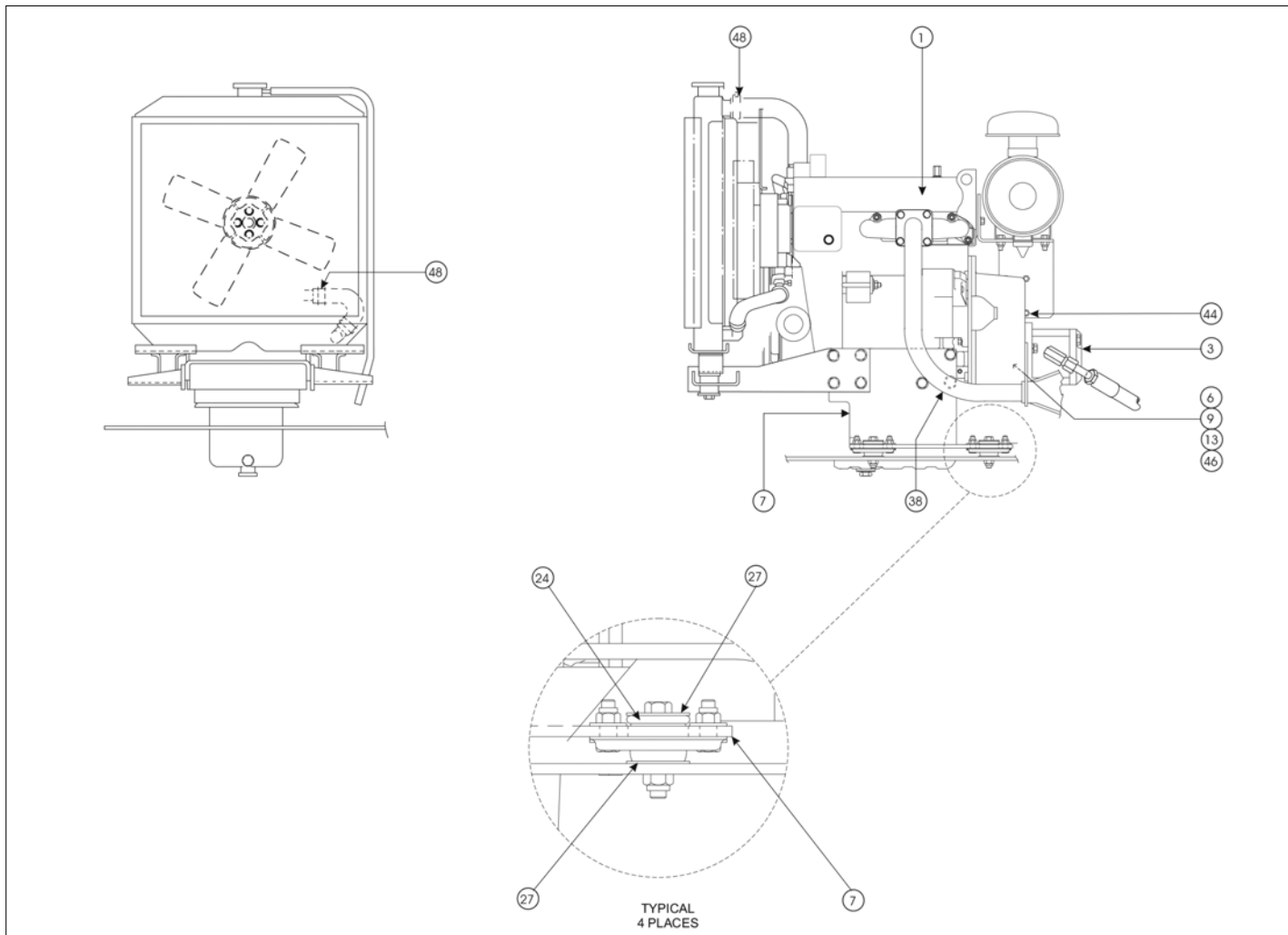
Item	Part No.	Name	Qty	Uom
29.	11646-16	SPACER, RIGHT HAND DOOR, LOWER	1	EA
30.	11646-17	SPACER, RIGHT HAND DOOR, UPPER	1	EA
33.	11679	Cabinet Door - Small	1	EA
34.	11680	Cabinet Door - Large	1	EA
35.	4381	Horn	1	EA

REPAIR PARTS

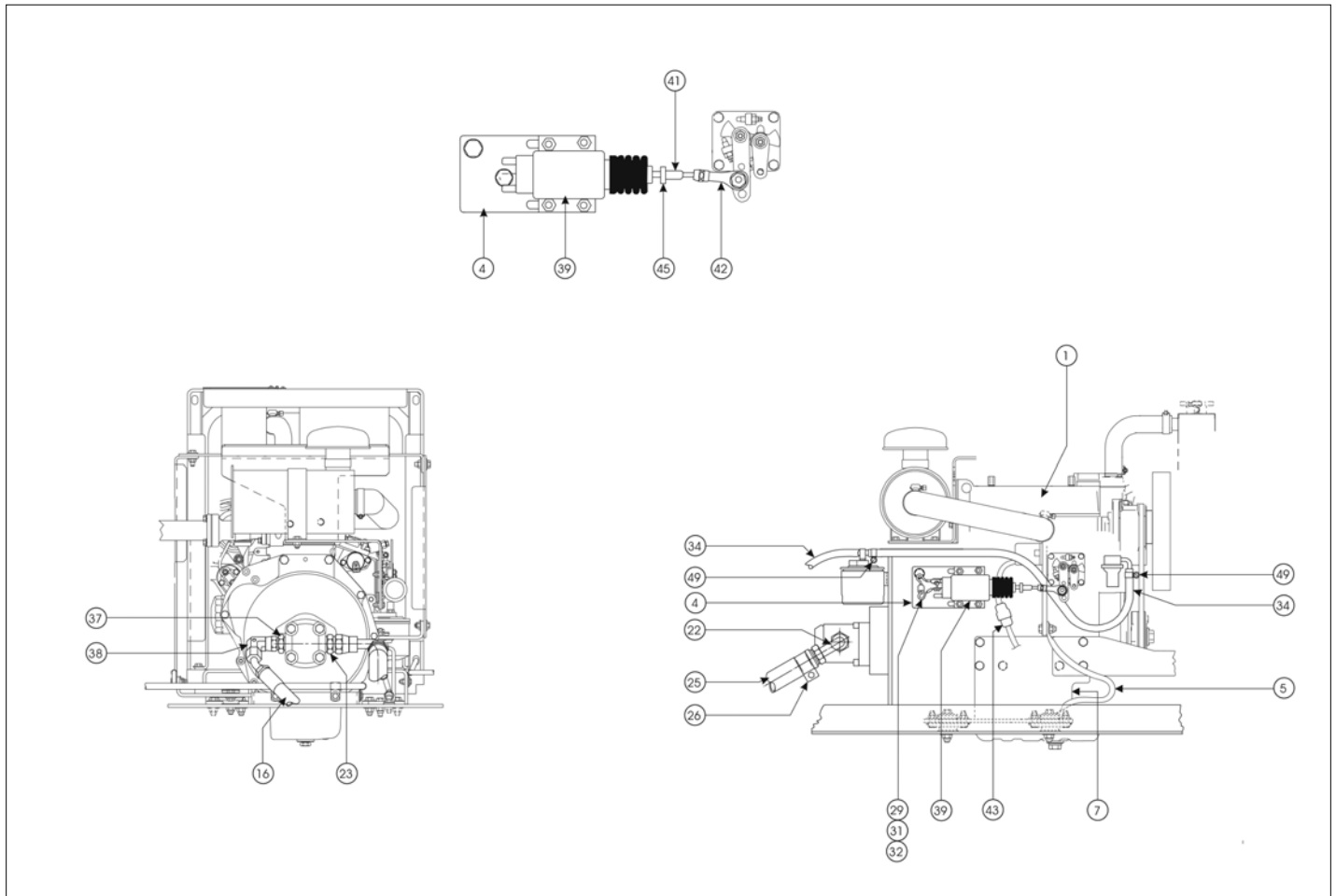


Item	Part No.	Name	Qty	Uom
0.	11647A	ENGINE SIDE TRAY ASSEMBLY	1	EA
1.	11362	ENGINE ASSEMBLY, KUBOTA D905 DIESEL	1	EA
2.	11469	LEFT HAND HINGE WELDMENT, LOWER	1	EA
3.	11469-1	RIGHT HAND HINGE WELDMENT, LOWER	1	EA
4.	11470	LEFT HAND HINGE WELDMENT, UPPER	1	EA
5.	11470-1	RIGHT HAND HINGE WELDMENT, UPPER	1	EA
6.	11480	FUEL TANK ASSEMBLY, DIESEL FUEL	1	EA
7.	11646-4	TOP PLATE	1	EA
13.	PNNA	BASE PANEL SUBWELD	1	EA
14.	11647-3	FUEL TANK SHELF	1	EA
15.	11647-4	FIREWALL WELDMENT	1	EA
18.	11647-7	BACK PANEL	1	EA
21.	11679	Cabinet Door - Small	1	EA
22.	11680	Cabinet Door - Large	1	EA
23.	7895	Anti Rattle Button	1	EA
24.	8342416-3	Latch - Adjustable Trigger, Key 508CH	1	EA

REPAIR PARTS

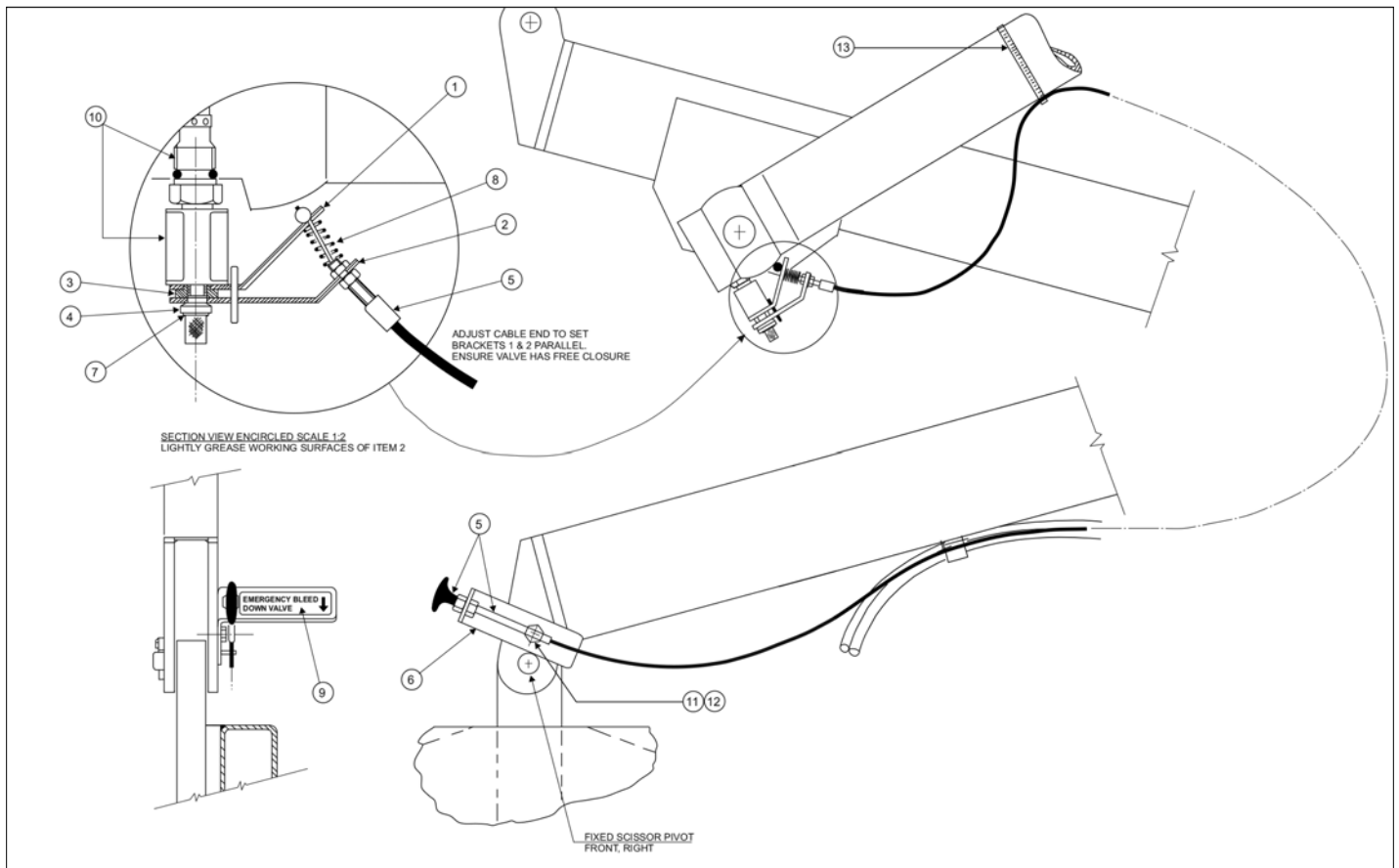


Item	Part No.	Name	Qty	Uom
0.	11362	ENGINE ASSEMBLY, KUBOTA D905 DIESEL	1	EA
1.	11471	ENGINE, KUBOTA D905 DIESEL	1	EA
3.	11490	GEAR PUMP	1	EA
4.	11475	SOLENOID MOUNT	1	EA
5.	3649-10	Battery Cable	1	EA
6.	11478	ADAPTOR PLATE	1	EA
7.	11472-10	BRACKET, ENGINE MOUNT, RIGHT HAND	1	EA
8.	11472-11	BRACKET, ENGINE MOUNT, LEFT HAND	1	EA
9.	11479	DRIVE PLATE	1	EA
13.	11489	ALLOY COUPLING	1	EA
16.	11287-125	HOSE ASSEMBLY, PRESSURE	1	EA
20.	560219	ENGINE WIRE HARNESS	1	EA
22.	7065-011	HOSE TAIL, 1 -> 1 & 1/16" JICF, 90 DEGREE ELBOW	1	EA
23.	7013-007	BSPP (DOWTY) X JICM NIPPLE	1	EA
24.	7630208	Engine Mount	4	EA
25.	11558-6	SUCTION HOSE	Ref	EA
26.	3618-26	Hose Clamp 26 - 28mm	Ref	EA
27.	5560179	Flat Washer - Special	8	EA
29.	1242-005	DIODE, 1KV 6A N06A10	1	EA
31.	1853-043	UTILUX H4412	2	EA
32.	1853-090	HEAT SHRINK, 3MM WHITE	0.040 L.M.	EA
34.	11232-3	5/16" ID FUEL HOSE	As Req	EA
37.	7013-002	BSPP (DOWTY) X JICM NIPPLE	1	EA
38.	11331	ENGINE EXHAUST	1	EA
39.	3040174	SOLENOID, THROTTLE	1	EA
41.	2650001	Swivel Inline	1	EA
42.	2690004	Rod End	1	EA



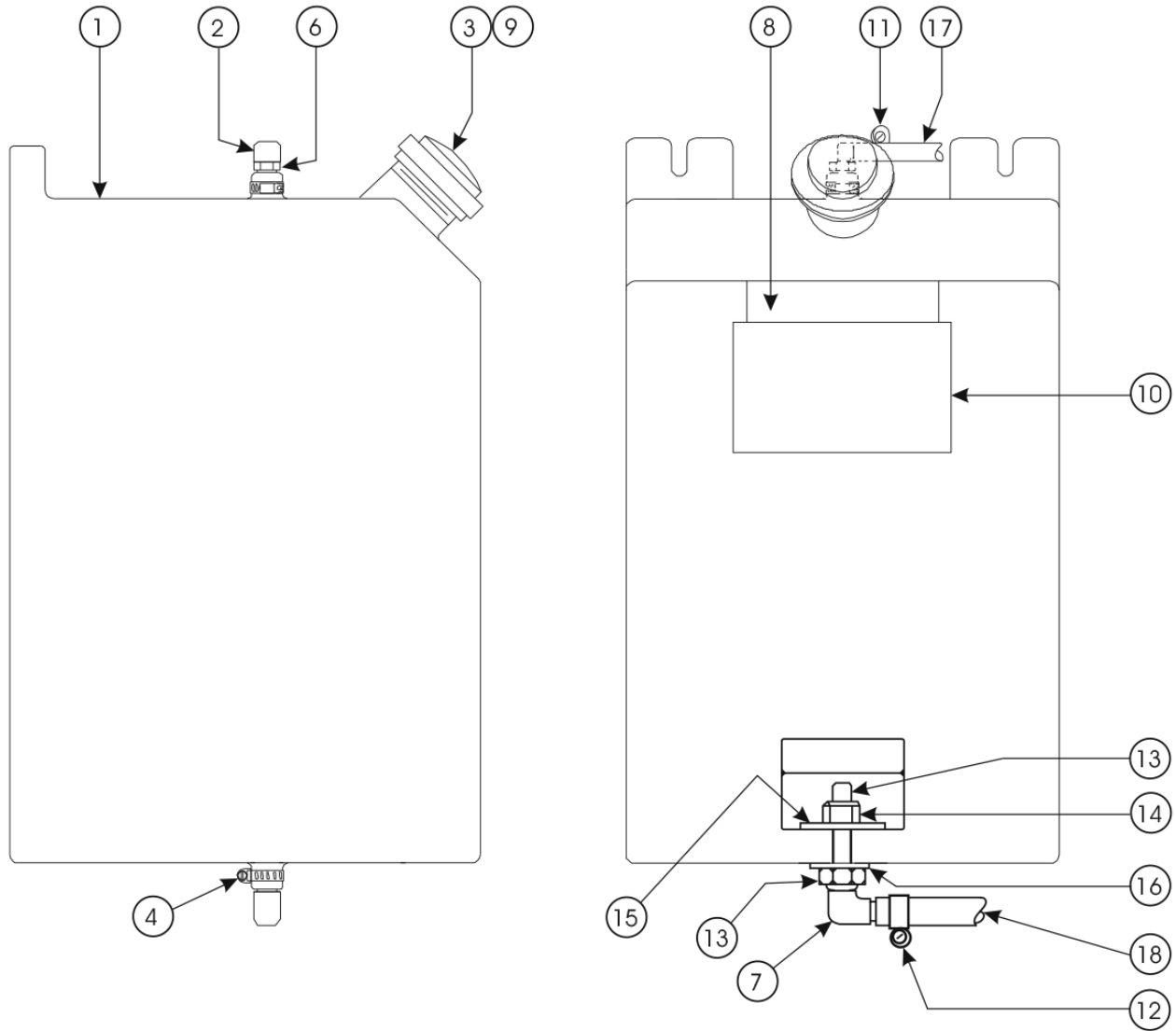
Item	Part No.	Name	Qty	Uom
43.	1853-102	PLUG, MALE (HAMEL NUMBER 53542)	1	EA
44.	60017-007	1" x 3/8 UNC Bolt	8	EA
45.	60021-008	1/4" NF Hex Nut	1	EA
46.	6 KEY	6MM KEY STEEL	0.035 L.M.	EA
49.	3618-14	Hose Clamp 8-16mm	1	EA
51.	96057-6	BOOT, 2 GA VAN TIELEN 4701	1	EA

REPAIR PARTS



Item	Part No.	Name	Qty	Uom
1.	11772-1	FIXED CABLE BRACKET	1	EA
2.	11772-2	ROCKING CABLE BRACKET	1	EA
3.	11772-3	SOLENOID NUT	1	EA
4.	11772-4	THRUST RING	1	EA
5.	11772-5	BOWDEN CABLE ASSEMBLY	1	EA
6.	11772-6	BRACKET, BLEED DOWN CABLE	1	EA
7.	3619-4	CIRCLIP, EXTERNAL	1	EA
8.	11772-8	SPRING, COMPRESSION	1	EA
9.	007-0420	PLACARD, EMERGENCY BLEED DOWN	1	EA
10.	11687-10	CARTRIDGE, HOLDING VALVE	1	EA
11.	3610-10016	Metric Bolt	1	EA
12.	3605-10	Spring Washer	1	EA
13.	25484-6	CABLE TIE, NYLON	1	EA

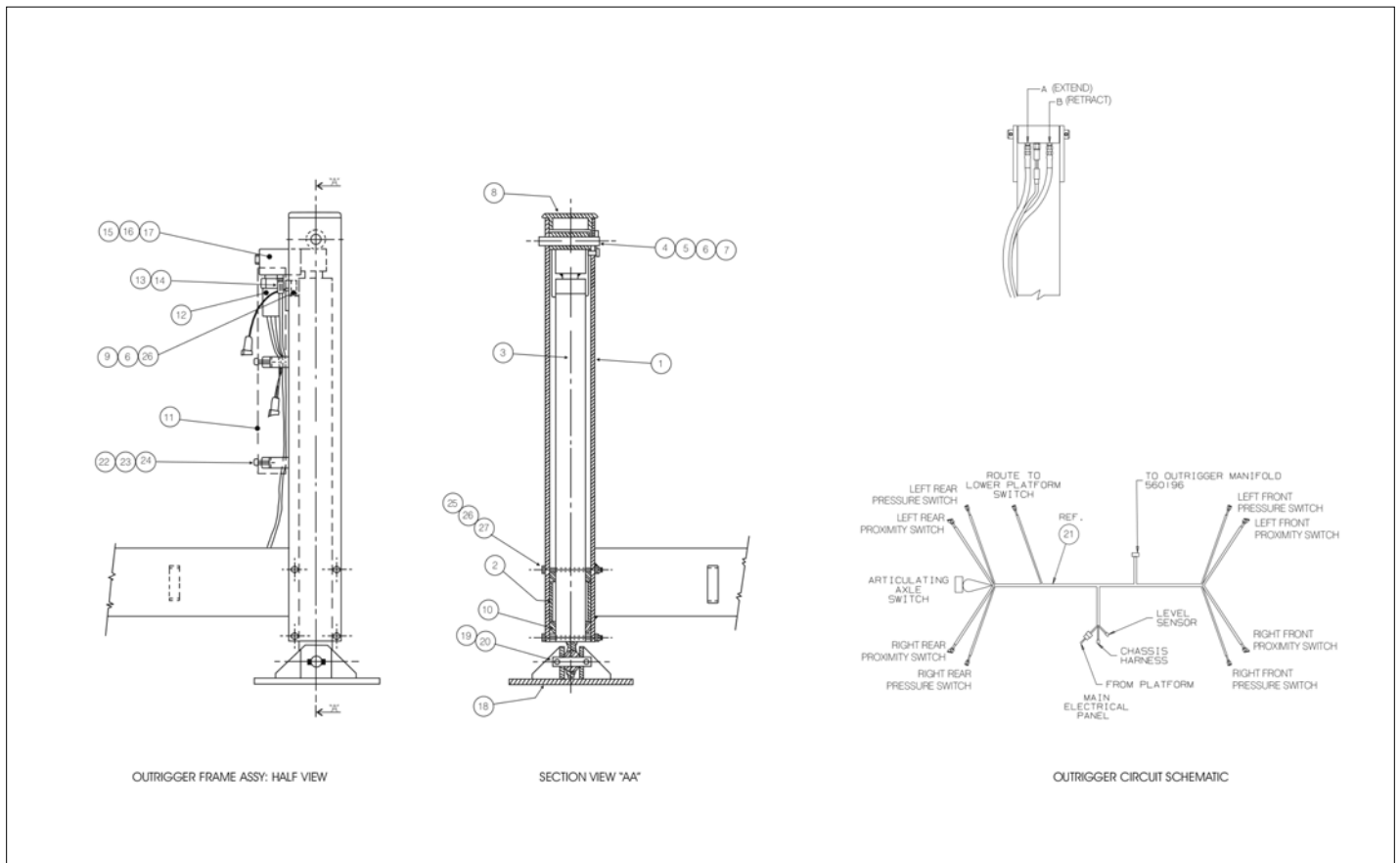
REPAIR PARTS



Note:
1. All pipe thread must be sealed with diesel fuel resistant pipe compound.

Item	Part No.	Name	Qty	Uom
0.	11480	FUEL TANK ASSEMBLY, DIESEL FUEL	1	EA
1.	561706	FUEL TANK, 13 GALLON CAPACITY	1	EA
2.	563726	MALE ELBOW, 3/16" X 1/8" BSPT	1	EA
3.	605256	Cap, Vented	1	EA
4.	3618-11	Hose Clamp 11 - 25mm	2	EA
6.	7720201	REDUCER BUSHING 1/4 NPT - 1/8 NPT	2	EA
7.	967309	Male Elbow 5/16" x 1/4" BSPT	1	EA
8.	605726	Decal, Diesel Fuel Only	1	EA
9.	563406	GASKET	1	EA
10.	476706	Decal, Explosive Fumes (Outside Cabinet Door & Fuel Tank)	1	EA
11.	3618-10	Hose Clamp 8-10mm	2	EA
12.	3618-14	Hose Clamp 8-16mm	2	EA
13.	3610-10050	Metric Bolt	3	EA
14.	3611-10	Metric Nyloc Nut	3	EA
15.	5560179	Flat Washer - Special	3	EA
16.	3603-10	Plain Washer	3	EA
17.	11232-1	FUEL HOSE, 3/16" RUBBER	0.8 L.M.	EA
18.	11232-3	5/16" ID FUEL HOSE	As Req	EA

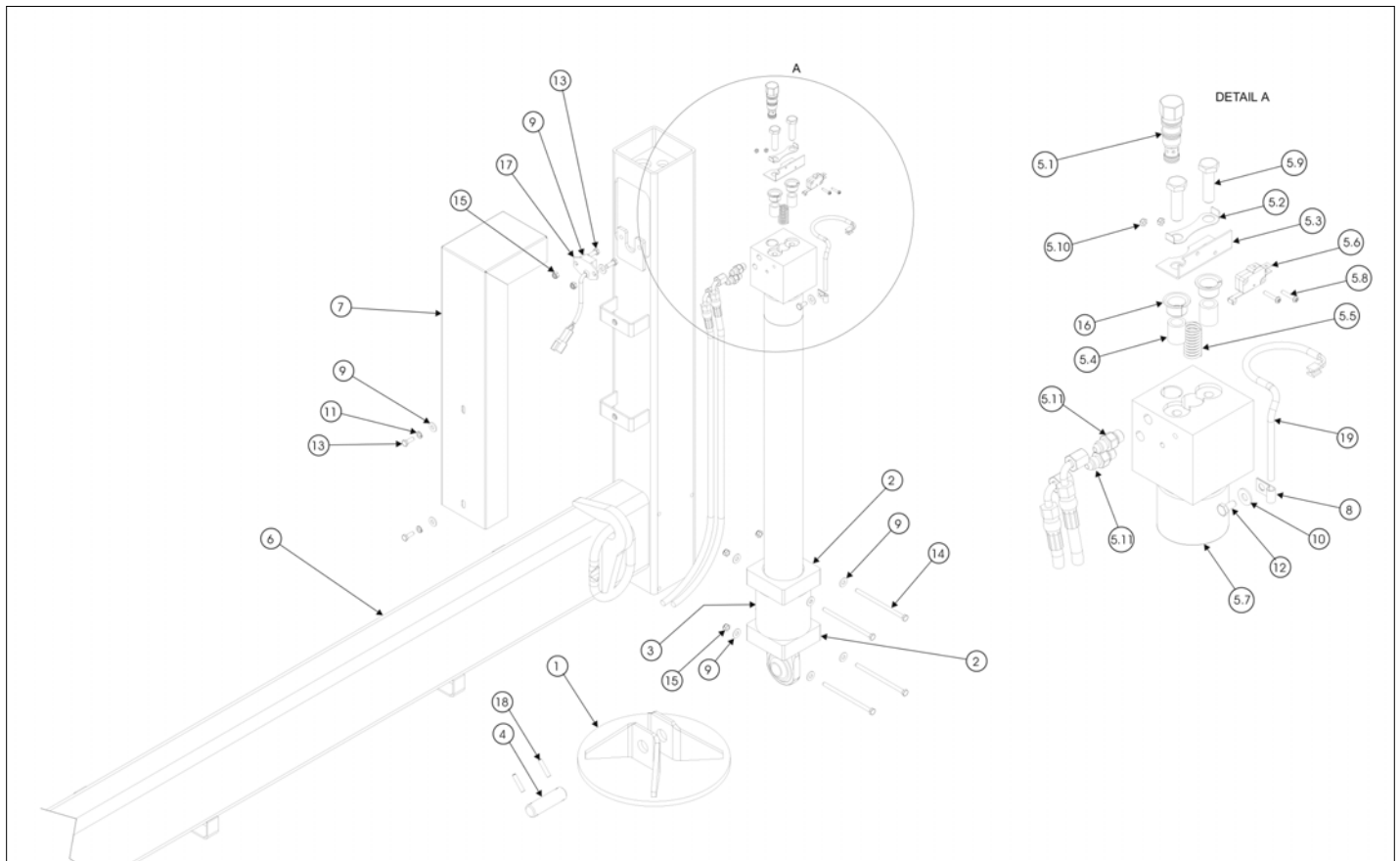
REPAIR PARTS



Item	Part No.	Name	Qty	Uom
1.	11643-1	STABILISER FRAME SUBWELD	2	EA
2.	11366-2	Stabiliser Bush Spacer	4	EA
3.	11308	CYLINDER ASSEMBLY	4	EA
4.	11334	PIN (CYLINDER RETAINING)	4	EA
5.	8628	Pin Keeper	4	EA
6.	3610-06016	Metric Bolt	12	EA
7.	11492-1	Tab Washer	4	EA
8.	9911	END CAP 100 X 100 (PLASTIC, BLACK)	4	EA
9.	560278	MAGNETIC PROXIMITY SWITCH	4	EA
10.	11366-1	Stabiliser Bush	8	EA
11.	11383	COVER, STABILISER HOSE	4	EA
12.	3020129	SWITCH, PRESSURE 300PSI (BARKSDALE)	4	EA
13.	7025-015	JICM X UN 'O' RING, MALE NIPPLE	8	EA
14.	11287-137	R/R STABILISER	2	EA
Not Shown	11287-138	L/R STABILISER	2	EA
Not Shown	11287-139	L/F & R/F STABILISER	4	EA
15.	11367	VALVE ASSEMBLY, STABILISER CYLINDER	4	EA
16.	13-110	'O' RING	8	EA
17.	3613-08045	SOCKET HEAD CAPSCREW M8 X 45 LG	8	EA
18.	11305	Foot Weld Inverted Stabiliser Leg	4	EA
19.	11369	Pin 7/8" x 76mm	4	EA
20.	3633-3	Roll Pin	8	EA
21.	56024-6	LOOM	1	EA
22.	3605-08	Spring Washer	8	EA
23.	3603-08	Plain Washer	8	EA

Item	Part No.	Name	Qty	Uom
24.	3610-08016	Metric Bolt	8	EA
25.	3603-06	Plain Washer	28	EA
26.	3611-06	Metric Nyloc Nut	28	EA
27.	3610-06110	Metric Bolt	16	EA

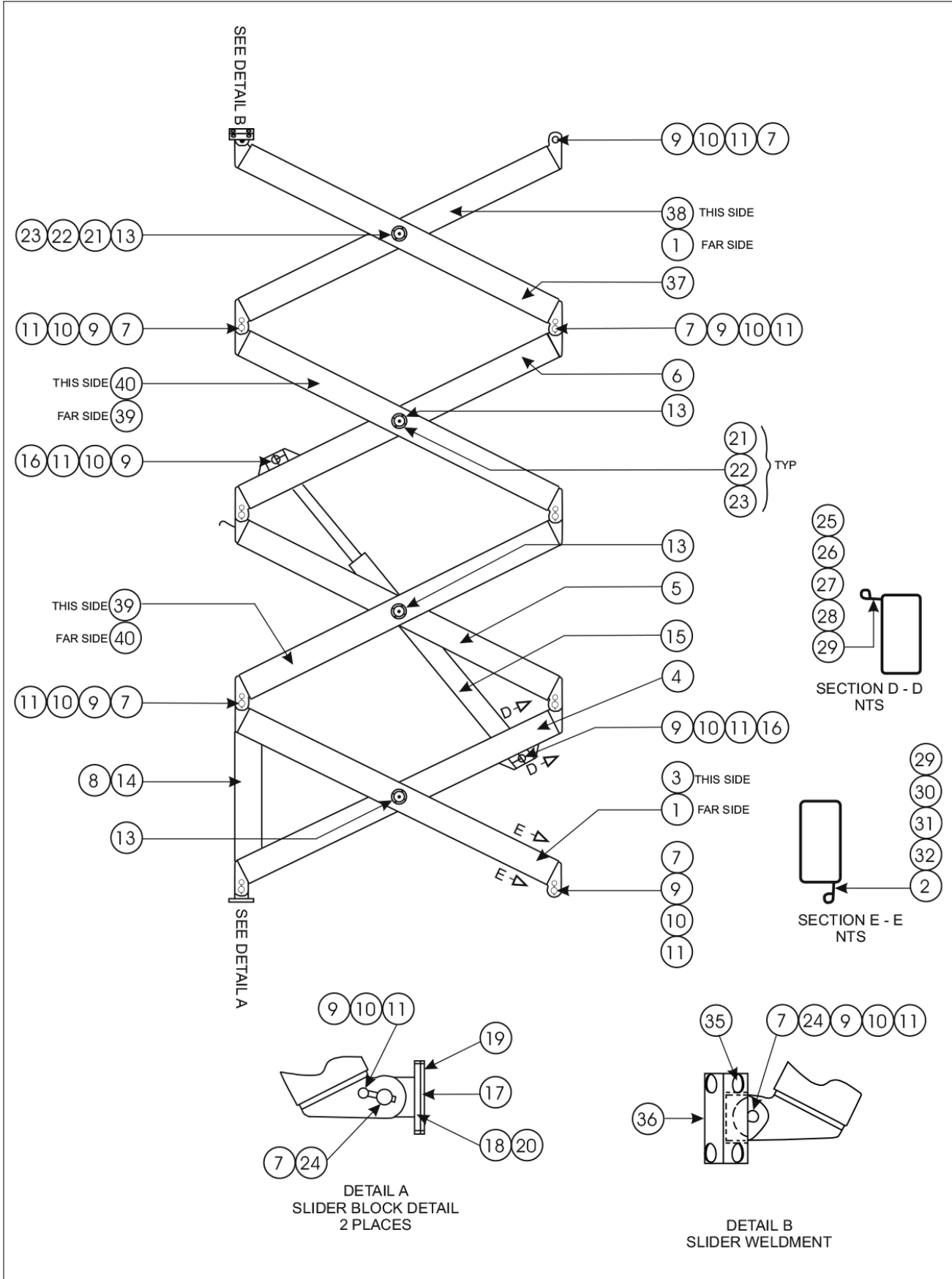
REPAIR PARTS



Item	Part No.	Name	Qty	Uom
1.	11305	Foot Weld Inverted Stabiliser Leg	1	EA
2.	11366-1	Stabiliser Bush	2	EA
3.	11366-2	Stabiliser Bush Spacer	1	EA
4.	11369	Pin 7/8" x 76mm	1	EA
5.	12036A	Stabiliser Cylinder Assembly	1	EA
5.1.	11367-2	Pilot-to-open Check Valve With Sealed Pilot	1	EA
5.2.	11492-4	Dual Locktab	1	EA
5.3.	12036-4	MICROSWITCH MOUNT PLATE	1	EA
5.4.	12036-5	Sliding Spacer	2	EA
5.5.	12036-6	Compression Spring	1	EA
5.6.	12036-7	SWITCH	1	EA
5.7.	12036	Cylinder - Stabiliser SR	1	EA
5.8.	3604-03016	MACHINE SCREW	2	EA
5.9.	3610-10035	Metric Bolt	2	EA
5.10.	3611-03	Metric Nyloc Nut	2	EA
5.11.	7025-015	JICM X UN 'O' RING, MALE NIPPLE	2	EA
6.	REF	STABILISER WELDMENT	1	EA
7.	12039	HOSE COVER, STABILISER LEG	1	EA
8.	2022-003	CABLE CLAMP	1	EA
9.	3603-06	Plain Washer	12	EA
10.	3603-06	Plain Washer	1	EA
11.	3605-06	Spring Washer	2	EA
12.	3610-06012	Metric Bolt	1	EA
13.	3610-06016	Metric Bolt	4	EA
14.	3610-06110	Metric Bolt	4	EA
15.	3611-06	Metric Nyloc Nut	6	EA
16.	3626-8	Flanged Permaglide Bush	2	EA
17.	560278	MAGNETIC PROXIMITY SWITCH	1	EA

Item	Part No.	Name	Qty	Uom
18.	3633-3	Roll Pin	2	EA
19.	1249-003	WIRING LOOM	1	EA

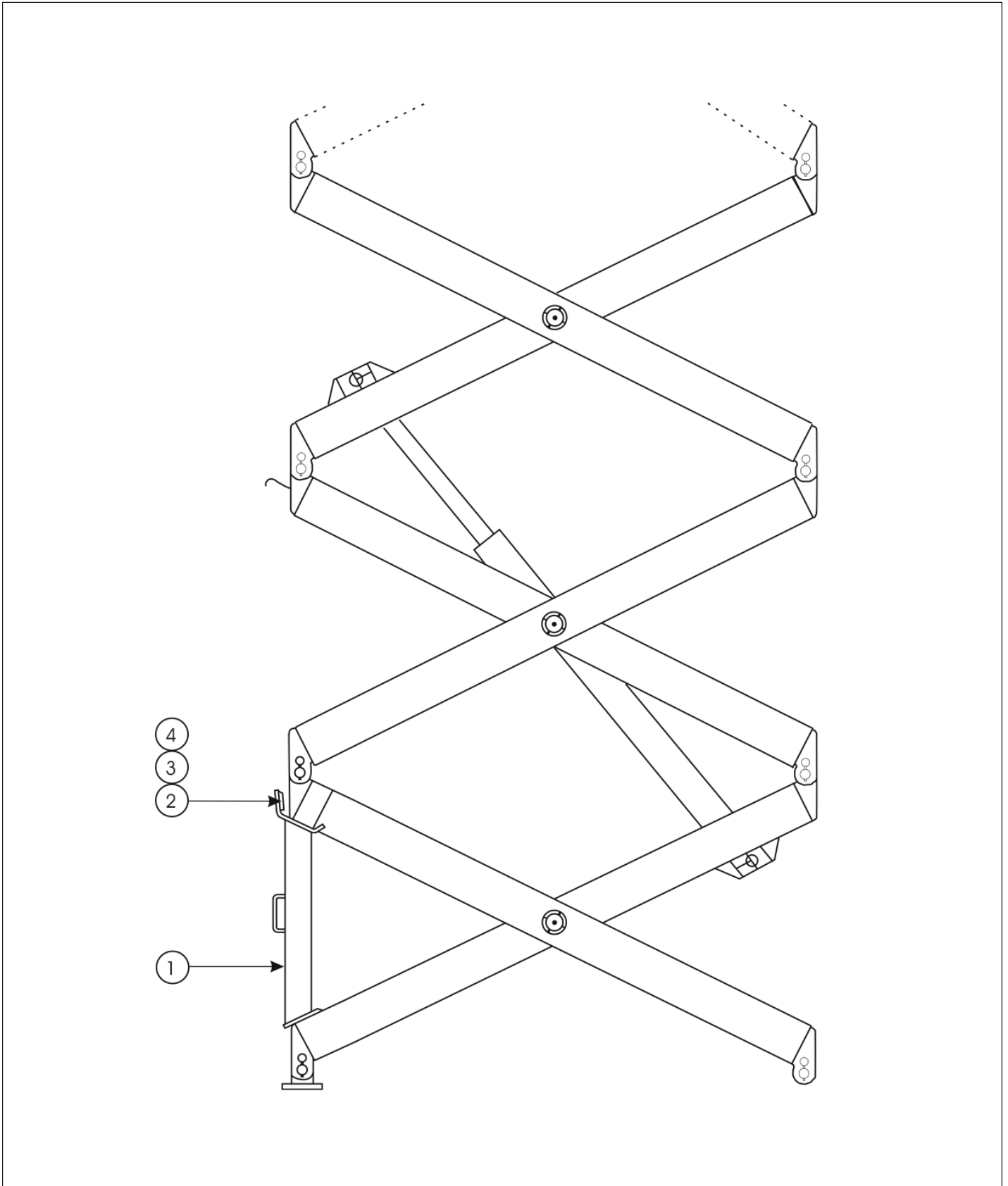
REPAIR PARTS



Item	Part No.	Name	Qty	Uom
0.	11340	SCISSOR ARM ASSEMBLY	1	EA
1.	9333	ARM OUTER	2	EA
2.	3605-08	Spring Washer	2	EA
3.	9484	ARM LOWER OUTER RIGHT	1	EA
4.	9330	ARM LOWER INNER	1	EA
5.	9465	ARM MID INNER	1	EA
6.	9332	Arm, inner upper weld	1	EA
7.	8699	Pin	20	EA
8.	11143-2	Wear Pad	1	EA
9.	11492-3	Tab Washer	22	EA
10.	8626	Pin Keeper	22	EA
11.	3610-10025	Metric Bolt	20	EA
13.	8711	PIN MID PIVOT	8	EA
14.	11380	Saftey Prop	1	EA
15.	11687A	CYLINDER ASSEMBLY, LIFT	1	EA
16.	9292	Pin	2	EA
17.	8601	WELDMENT SLIDER BLOCK	2	EA
18.	8677	WEARPAD SLIDING BLOCK	12	EA
19.	8678	WEARPAD SLIDING BLOCK	8	EA
20.	3603-04	Plain Washer	14	EA
21.	3629-5062L	Washer, Scissor Pivot	16	EA
22.	3633-1	PIN ROLL	16	EA
23.	3624-2	Permaglide Bush	32	EA
24.	3624-3	Permaglide Bush	4	EA
25.	45248-6	CLAMP CUSHION)”	14	EA
26.	3604-04016	Pan Head Screw	14	EA
27.	3602-04	Nut (Not Shown)	14	EA
28.	3605-04	Spring Washer	14	EA
29.	61003-005N	CABLE TIE	75	EA

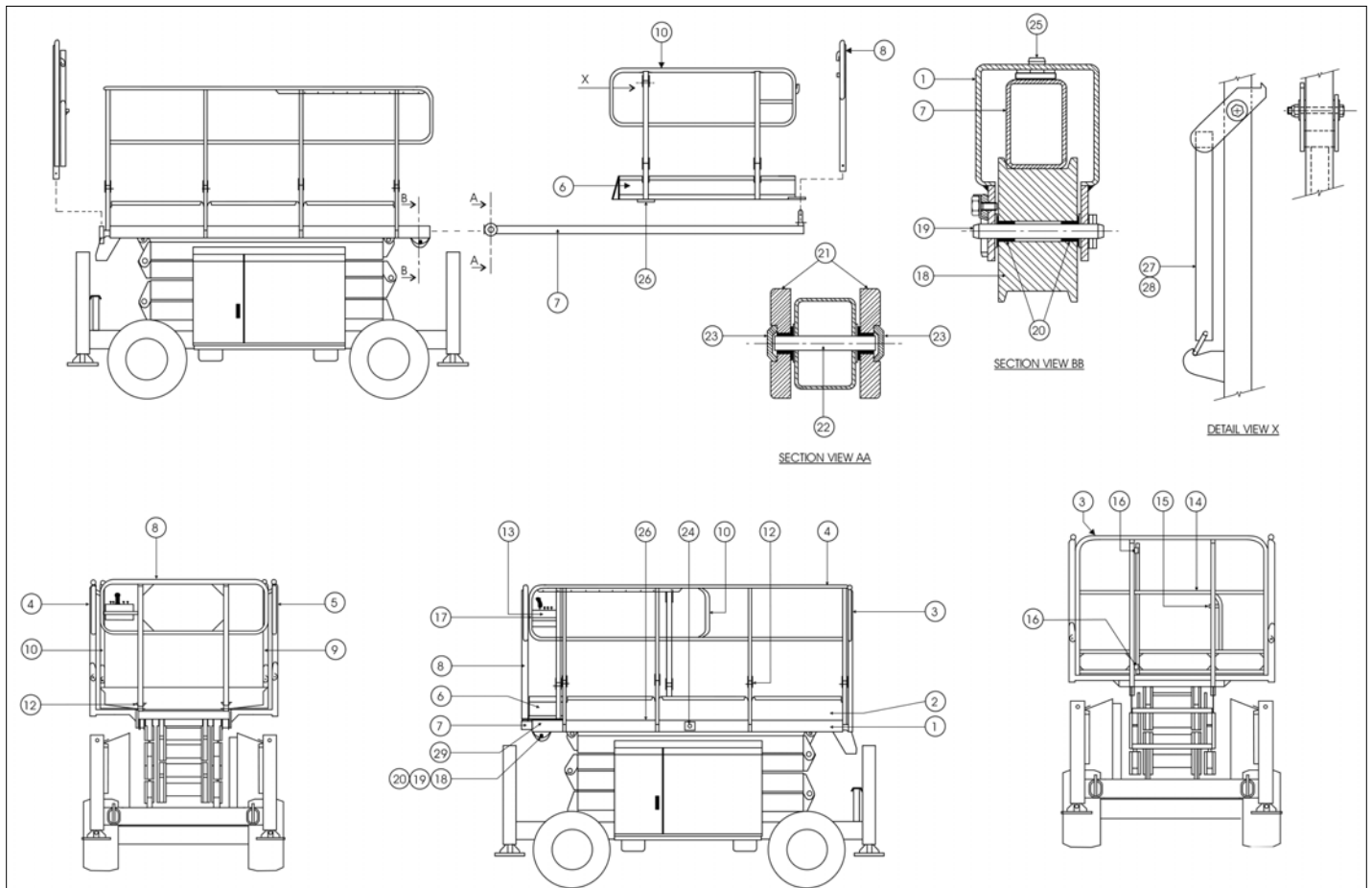
Item	Part No.	Name	Qty	Uom
30.	2022-005	Clamp Cushion 50mm	3	EA
31.	3610-06020	Metric Bolt	2	EA
32.	3611-06	Metric Nyloc Nut	2	EA
34.	3611-10	Metric Nyloc Nut	6	EA
35.	11658-20	Wear Plug	8	EA
36.	11654	PLATFORM SLIDER WELDMENT	1	EA
37.	9331	Arm, inner, upper fourth stage	1	EA
38.	9502	Arm, outer, upper weldment	1	EA
39.	12529	Arm, outer, mid right hand weld	2	EA
40.	12530	Arm, outer, mid left hand weld	2	EA

REPAIR PARTS



Item	Part No.	Name	Qty	Uom
1	11380	Saftey Prop	1	EA
2	111432	WEAR PAD	1	EA
3	3606-06025	Countersunk Sockethead Screw	1	EA
4	3611-06	Metric Nyloc Nut	1	EA

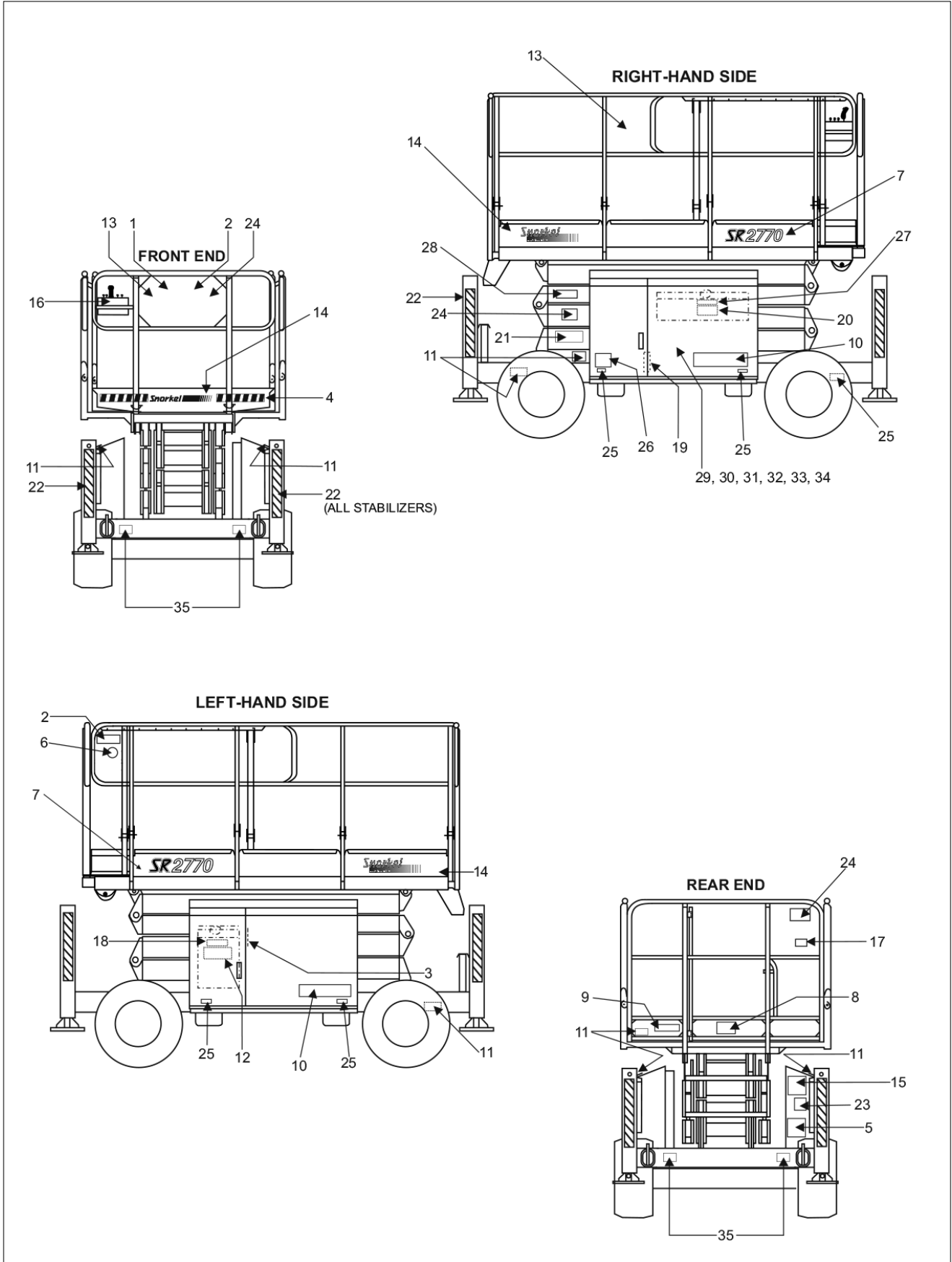
REPAIR PARTS



Item	Part No.	Name	Qty	Uom
1.	11658	PLATFORM WELDMENT	1	EA
2.	11658-28	PLATFORM FLOOR, PRESSING	2	EA
3.	11691	HANDRAIL ENTRY END (GATE IS SEPARATE)	1	EA
4.	11686-10	HANDRAIL WELDMENT, RIGHT HAND SIDE	1	EA
5.	11686-1	HANDRAIL WELDMENT, LEFT HAND SIDE	1	EA
6.	11655	ROLL OUT DECK WELDMENT	1	EA
7.	11688	ROLL OUT DECK FRAME WELD	1	EA
8.	11690-17	FRONT HAND RAIL WELDMENT	1	EA
9.	11690-1	ROLL OUT DECK, LEFT HAND HAND RAIL	1	EA
10.	11690-10	ROLL OUT DECK, RIGHT HAND HAND RAIL	1	EA
12.	302544	Pin & Lock	16	EA
13.	560221	PLATFORM CONTROL BOX ASSEMBLY	1	EA
14.	11691-12A	PLATFORM GATE ASSEMBLY	1	EA
15.	11691-10	Gate Latch Striker Set	1	EA
16.	7495	Spring Hinge	2	EA
17.	1273	LEVEL BUBBLE	1	EA
18.	11658-1	EXTERNAL ROLLER	2	EA
19.	11658-7	AXLE PIN EXTERNAL ROLLER	2	EA
20.	3626-2	Flanged Permaglide Bush	4	EA
21.	11658-3	INTERNAL ROLLER	4	EA
22.	11658-4	AXLE PIN INTERNAL ROLLER	2	EA
23.	11658-6	THRUST BUTTON	4	EA
24.	11658-11	ROLL OUT DECK STOP	2	EA
25.	11658-20	Wear Plug	2	EA
26.	11655-18	WEAR PAD, ROLL OUT DECK	2	EA
27.	11695R	Handrail Latch Right	1	EA

Item	Part No.	Name	Qty	Uom
28.	11695L	SLIDER LATCH LEFT HAND	1	EA
29.	11658-32	PLATFORM FLOOR RUN OFF PLATE	2	EA

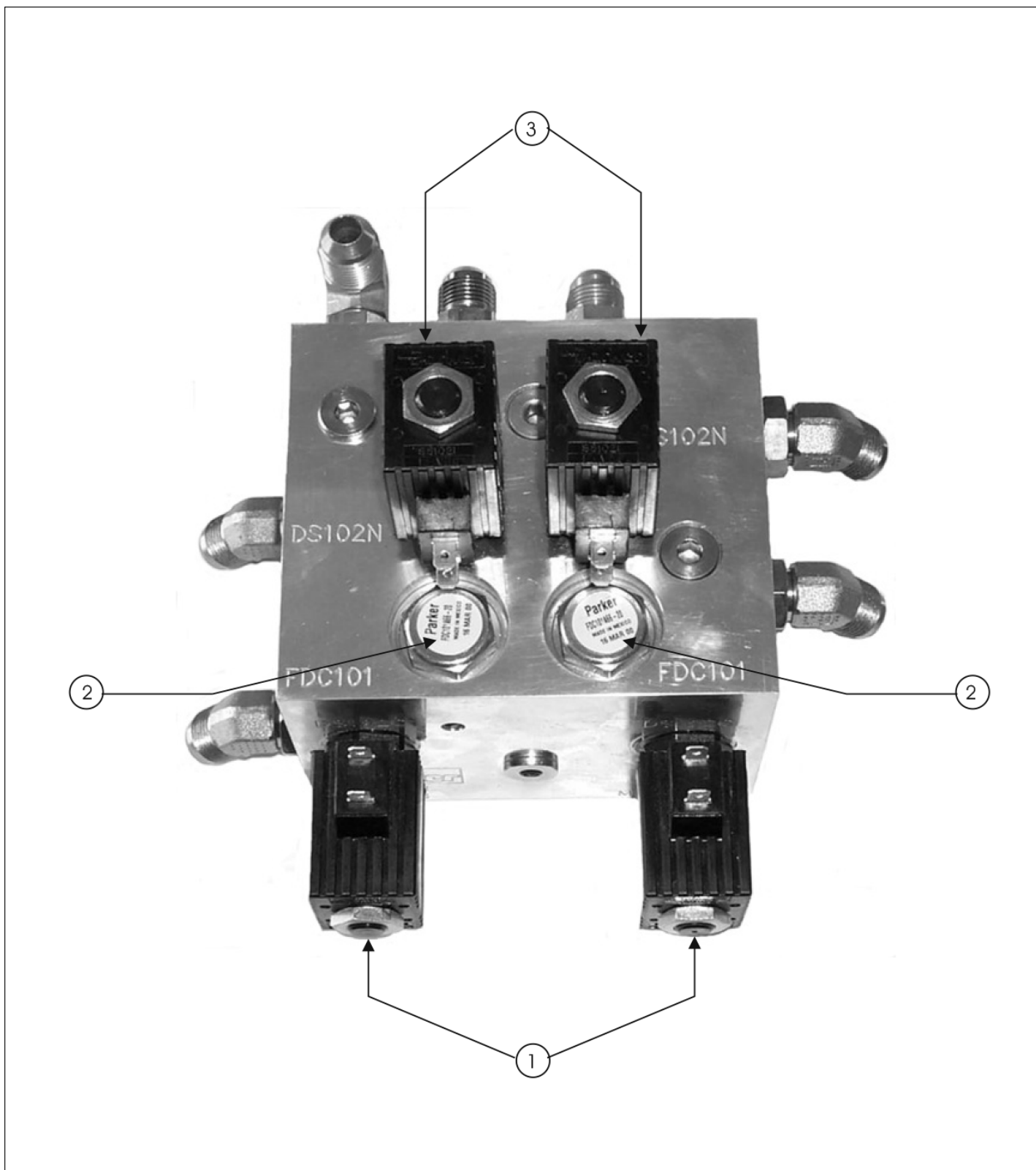
REPAIR PARTS



Item	Part No.	Name	Qty	Uom
1.	1843	Decal, Warning NZ Only	1	EA
2.	9428	DECAL, ELECTRICAL HAZARD AUSTRALIA ONLY	1	EA
3.	9208	DECAL, WATER	1	EA
4.	96924-9	Decal, Warning Stripes Yellow/Black	4m	EA
5.	0070901E	Name Plate	1	EA
6.	9751	DECAL, NEW ZEALAND MADE	1	EA
7.	11345-1	DECAL, SR2770	2	EA
8.	11346-1	Decal, Rated Load S2770RT & S2770RTE	1	EA
9.	0073298	Decal, Foam Tyres	1	EA
10.	459616	DECAL, WILD CAT	2	EA
11.	451986	Decal, Interlocks	7	EA
12.	476706	Decal, Explosive Fumes (Outside Cabinet Door & Fuel Tank)	1	EA
13.	480658	PLACARD, DANGER WITH ALARM	2	EA
14.	560239	DECAL, SNORKEL LOGO	3	EA
15.	560240	DECAL, GROUND CONTROL	1	EA
16.	560241	PLACARD, PLATFORM CONTROL BOX	1	EA
17.	560272	PLACARD, EMERGENCY STOP	1	EA
18.	605726	Decal, Diesel Fuel Only	1	EA
19.	007-0420	PLACARD, EMERGENCY BLEED DOWN	1	EA
20.	12814	Decal, Hydraulic Oil (On Hydraulic Oil Tank)	1	EA
21.	58365-6	DECAL, SAFETY BAR	1	EA
22.	9223-3	DECAL, CHEVRON	4	EA
23.	300699	Decal, Operators Checklist	1	EA
24.	0323897	Decal, Must Not Operate	2	EA
25.	621486	Decal, Forklift	4	EA

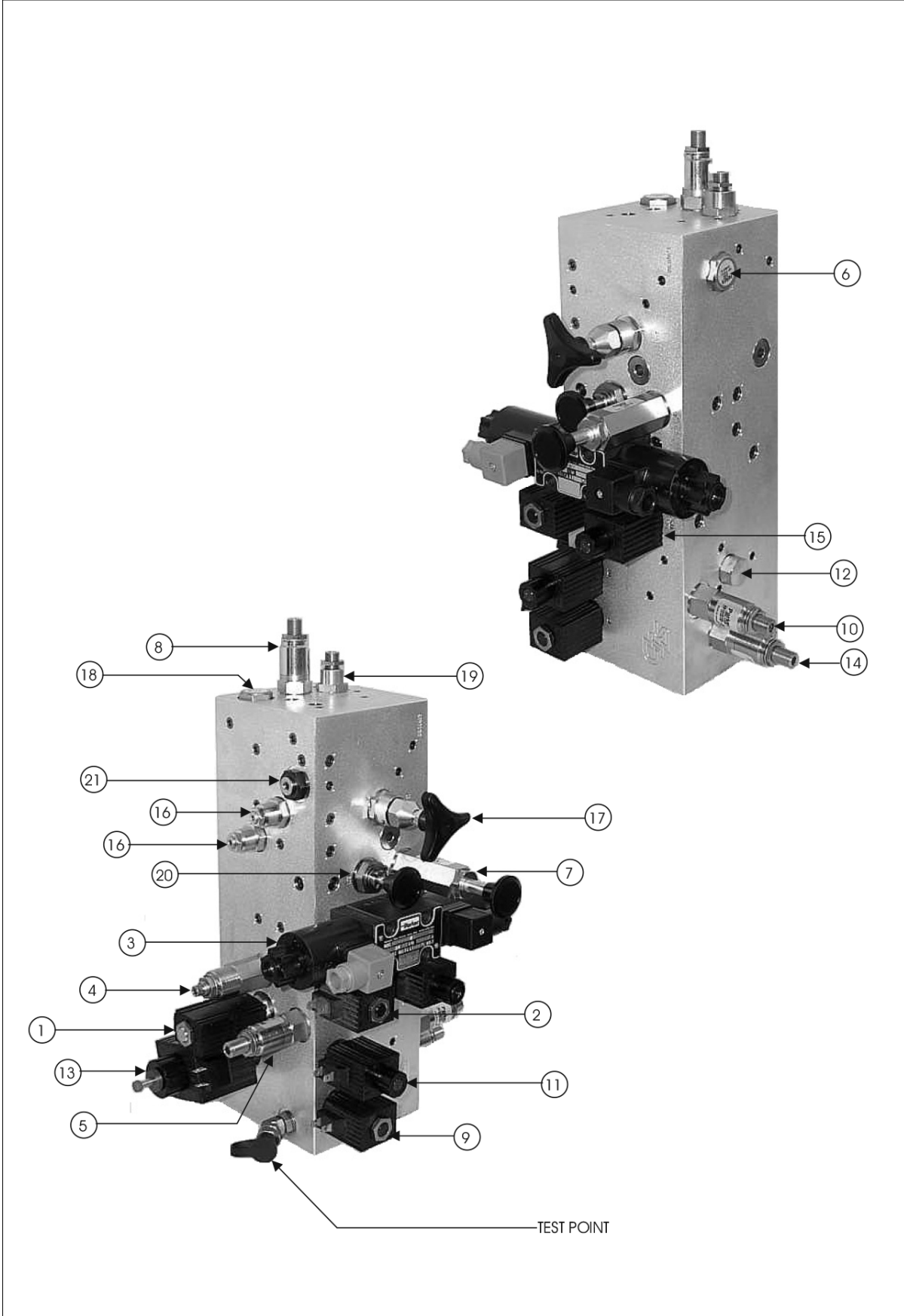
Item	Part No.	Name	Qty	Uom
27.	302950	Decal, Hydraulic Oil Level (On Hydraulic Oil Tank)	1	EA
28.	300700	Decal, Shearing Hazard	1	EA
29.	11615D	DECAL, MAIN MANIFOLD BLOCK	1	EA
30.	11616D	DECAL, STABILISER BLOCK	1	EA
31.	11618D	DECAL, 4WD BLOCK SR2770	1	EA
32.	11672D	DECAL, HYDRAULIC SCHEMATIC 4WD	1	EA
33.	11673D	DECAL, ELECTRICAL SCHEMATIC 4WD AND 2WD	1	EA
34.	11684D	DECAL, EMERGENCY OPERATION, EMERGENCY LOWERING	1	EA
35.	0083427	Decal, Lifting/Tie Down	4	EA

HYDRAULICS



Item	Part No.	Name	Qty	Uom
0.	11618A	4 WHEEL DRIVE MANIFOLD BLOCK ASSEMBLY	1	EA
1.	11618-1	NC SERIES / PARALLEL SELECTOR VALVE	2	EA
2.	11618-2	FLOW DIVIDER / COMBINER VALVE	2	EA
3.	11618-3	NO SERIES / PARALLEL SELECTOR VALVE	2	EA

HYDRAULICS



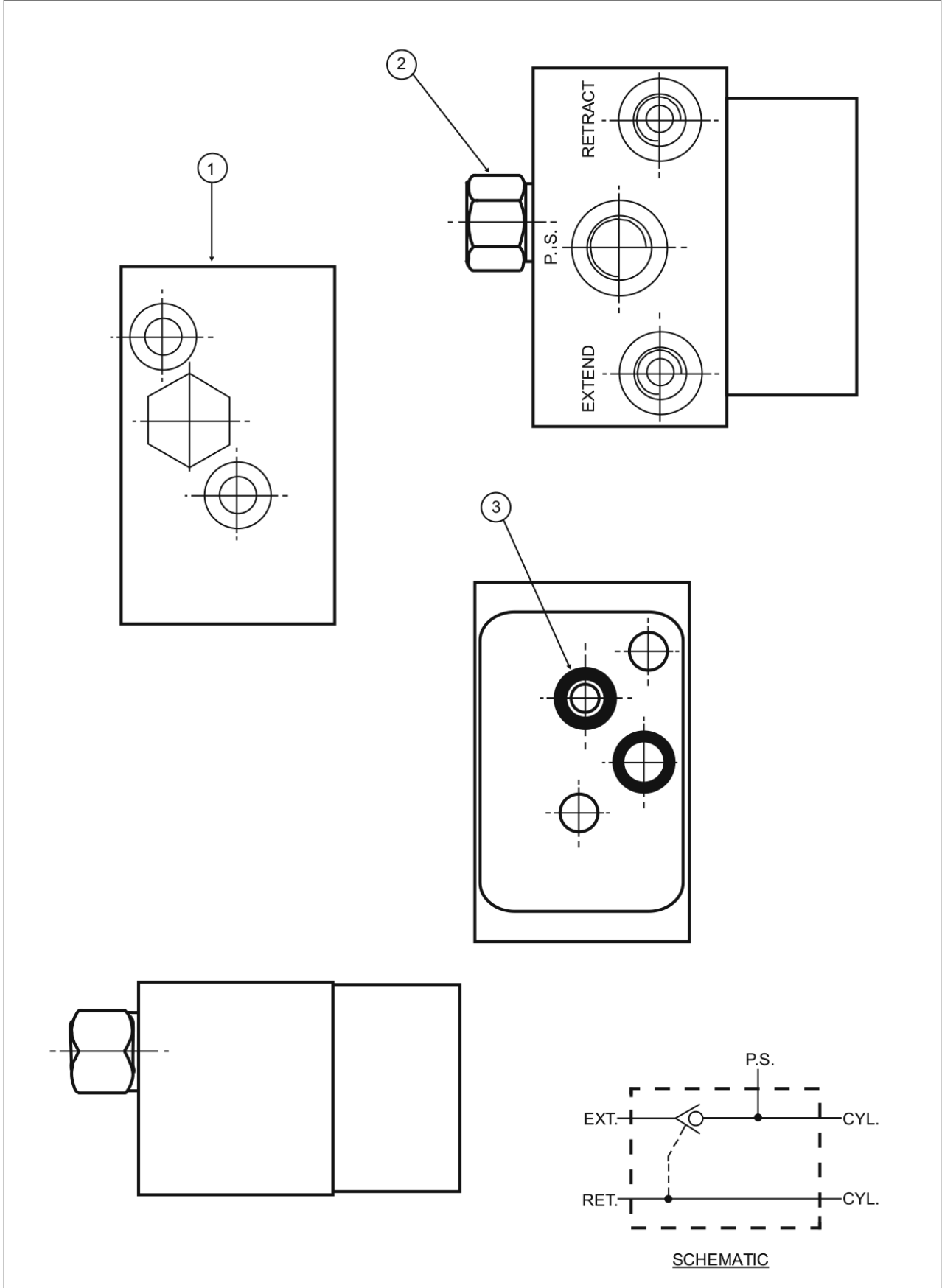
Item	Part No.	Name	Qty	Uom
1.	11615-1	STEER CARTRIDGE VALVE	1	EA
2.	11615-2	LIFT SOL VALVE	1	EA
3.	11615-3	DRIVE VALVE	1	EA
4.	11615-4	LIFT RELIEF VALVE 2800PSI	1	EA
5.	11615-5	STEER RELIEF VALVE 1500PSI	1	EA
6.	11615-6	BRAKE SHUTTLE VALVE	1	EA
7.	11615-7	BRAKE HAND PUMP	1	EA
8.	11615-8	AXLE PRESSURE REDUCING VALVE	1	EA
9.	11615-9	LEG SELECTOR VALVE	1	EA
10.	11615-10	STEERING PRIORITY FLOW REGULATOR	1	EA
11.	11615-11	STEER SOL VALVE	1	EA
12.	11615-12	COMPENSATOR	1	EA
13.	11615-13	PROPORTIONAL FLOW CONTROL	1	EA
14.	11615-14	MAIN RELIEF VALVE 3300 PSI	1	EA
15.	11615-15	DUMP SOL VALVE	1	EA
16.	11615-16	COUNTER BALANCE VALVES	2	EA
17.	11615-17	FREE WHEEL NEEDLE VALVE	1	EA
18.	11615-18	BRAKE SHUTTLE VALVE	1	EA
19.	11615-19	BRAKE SPEED CONTROL VALVE	1	EA
20.	11615-24	BRAKE MANUAL RESET VALVE	1	EA
21.	11615-25	BRAKE RELEASE PILOT OPEN CHECK	1	EA

HYDRAULICS



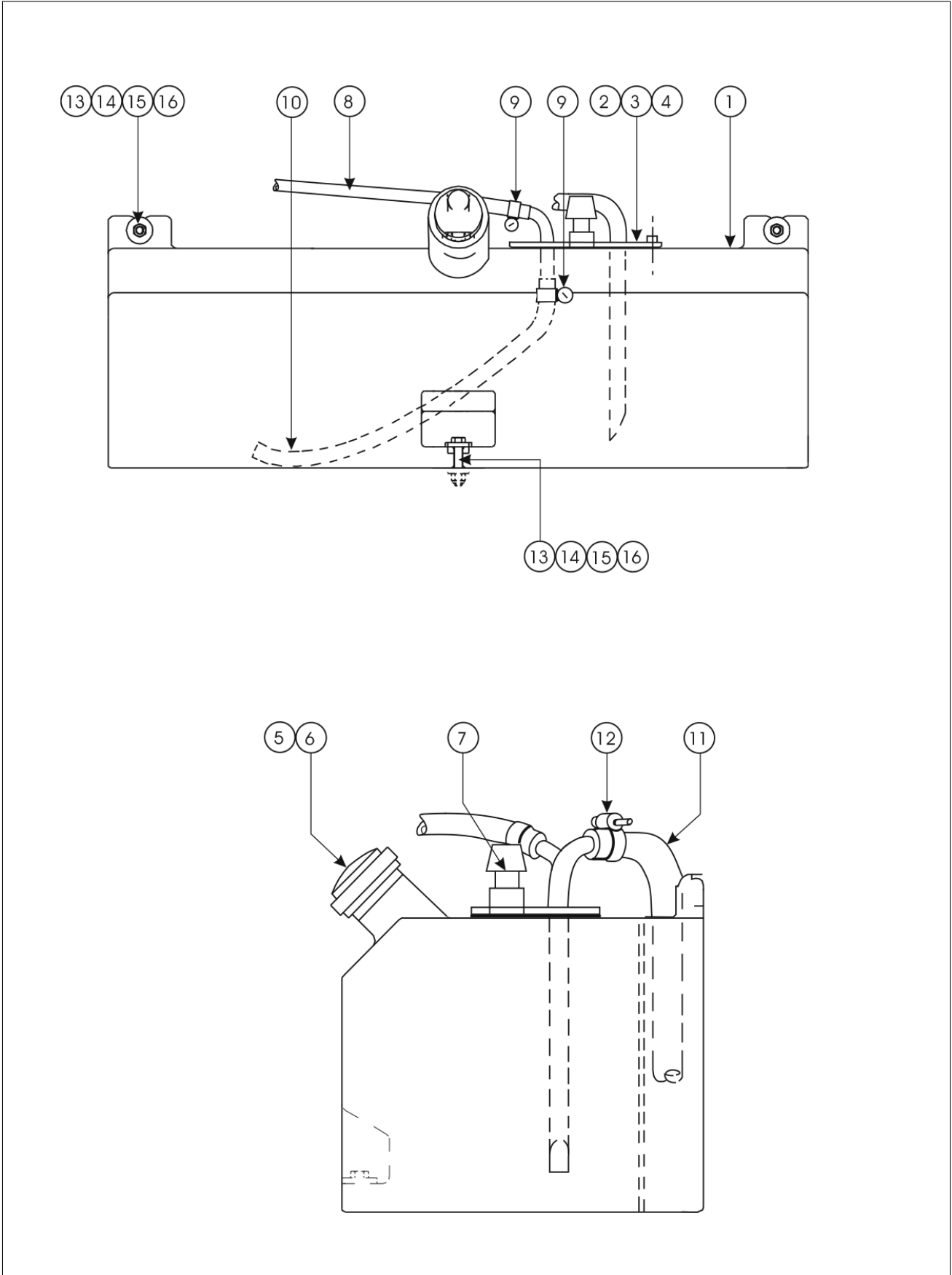
Item	Part No.	Name	Qty	Uom
0	11616	STABILISER VALVE BLOCK	1	EA
1	11616-1	CETOP 3 VALVE, 12VOLT	4	EA
2	11616-2	PILOT CHECK VALVE	4	EA

HYDRAULICS



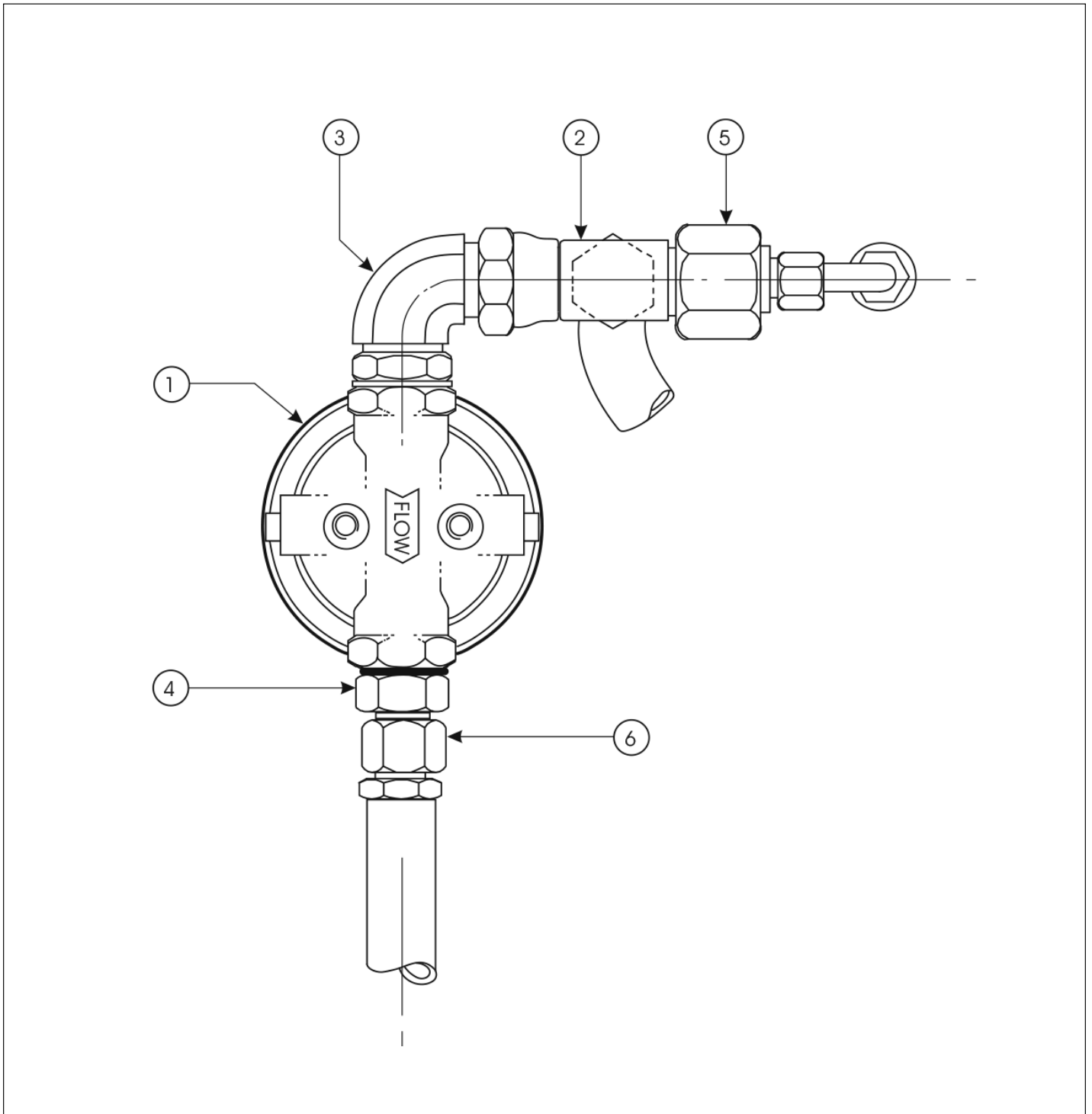
Item	Part No.	Name	Qty	Uom
0	11367	VALVE ASSEMBLY, STABILISER CYLINDER	1	EA
1	11367-1	VALVE BODY	1	EA
2	11367-2	Pilot-to-open Check Valve With Sealed Pilot	1	EA
3	13-110	'O' RING	2	EA

HYDRAULICS



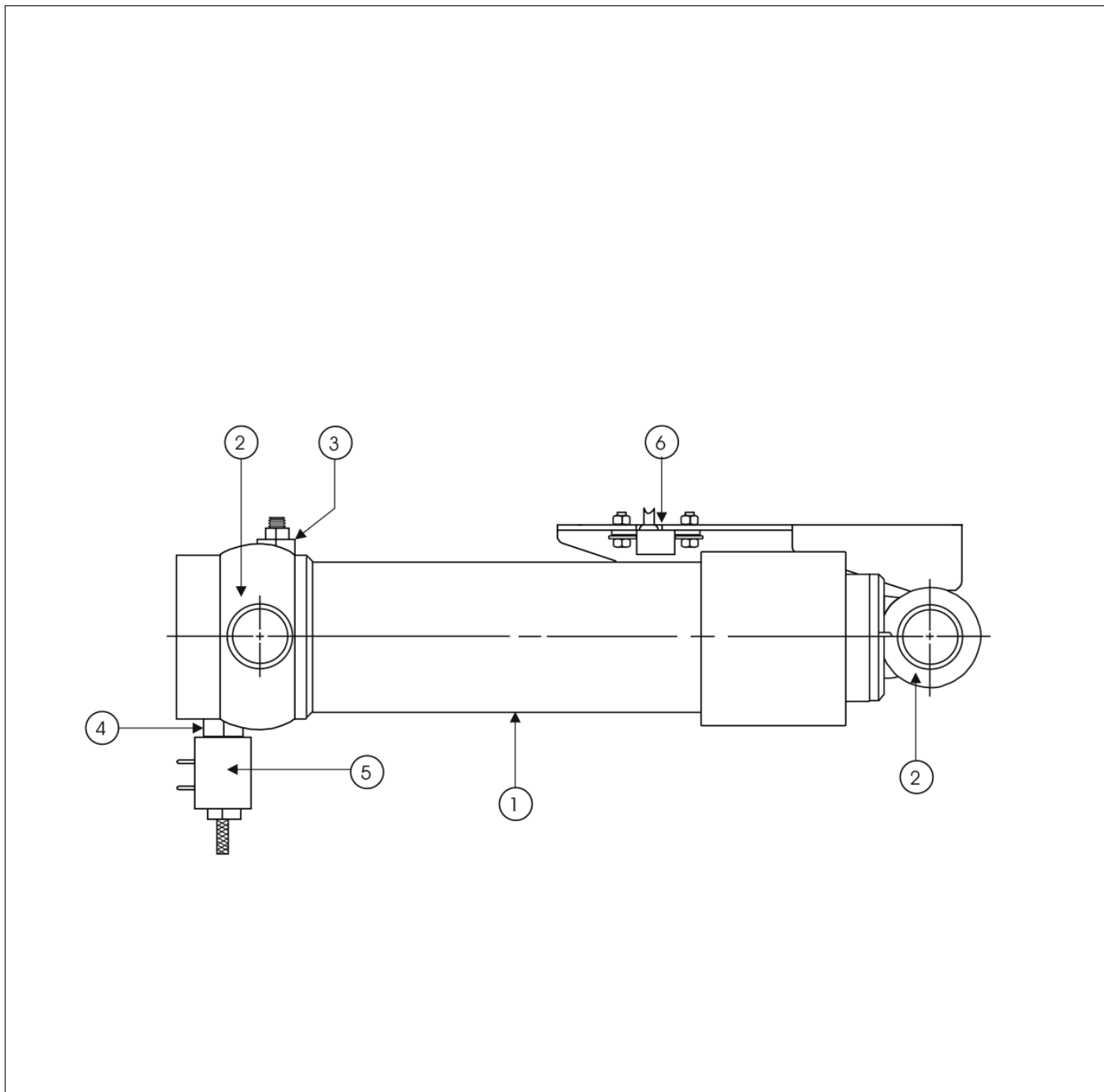
Item	Part No.	Name	Qty	Uom
0.	11558	Hydraulic Tank Assembly	1	EA
1.	11558-1	Tank 13 Gal	1	EA
2.	11558-2	Top plate weld, plated	1	EA
3.	11430-1	Base Plate Weld	1	EA
4.	11430-5	Gasket	1	EA
5.	605256	Cap, Vented	1	EA
6.	563406	GASKET	1	EA
7.	11487	Filter Breather	1	EA
8.	11558-7	RETURN HOSE, HYDRAULIC OIL TANK	1	EA
9.	3618-11	Hose Clamp 11 - 25mm	2	EA
10.	11558-8	Tank Inner Hose	1	EA
11.	11558-6	SUCTION HOSE	1	EA
12.	3618-26	Hose Clamp 26 - 28mm	1	EA
13.	3610-10050	Metric Bolt	3	EA
14.	3611-10	Metric Nyloc Nut	3	EA
15.	5560179	Flat Washer - Special	3	EA
16.	3603-10	Plain Washer	3	EA

HYDRAULICS



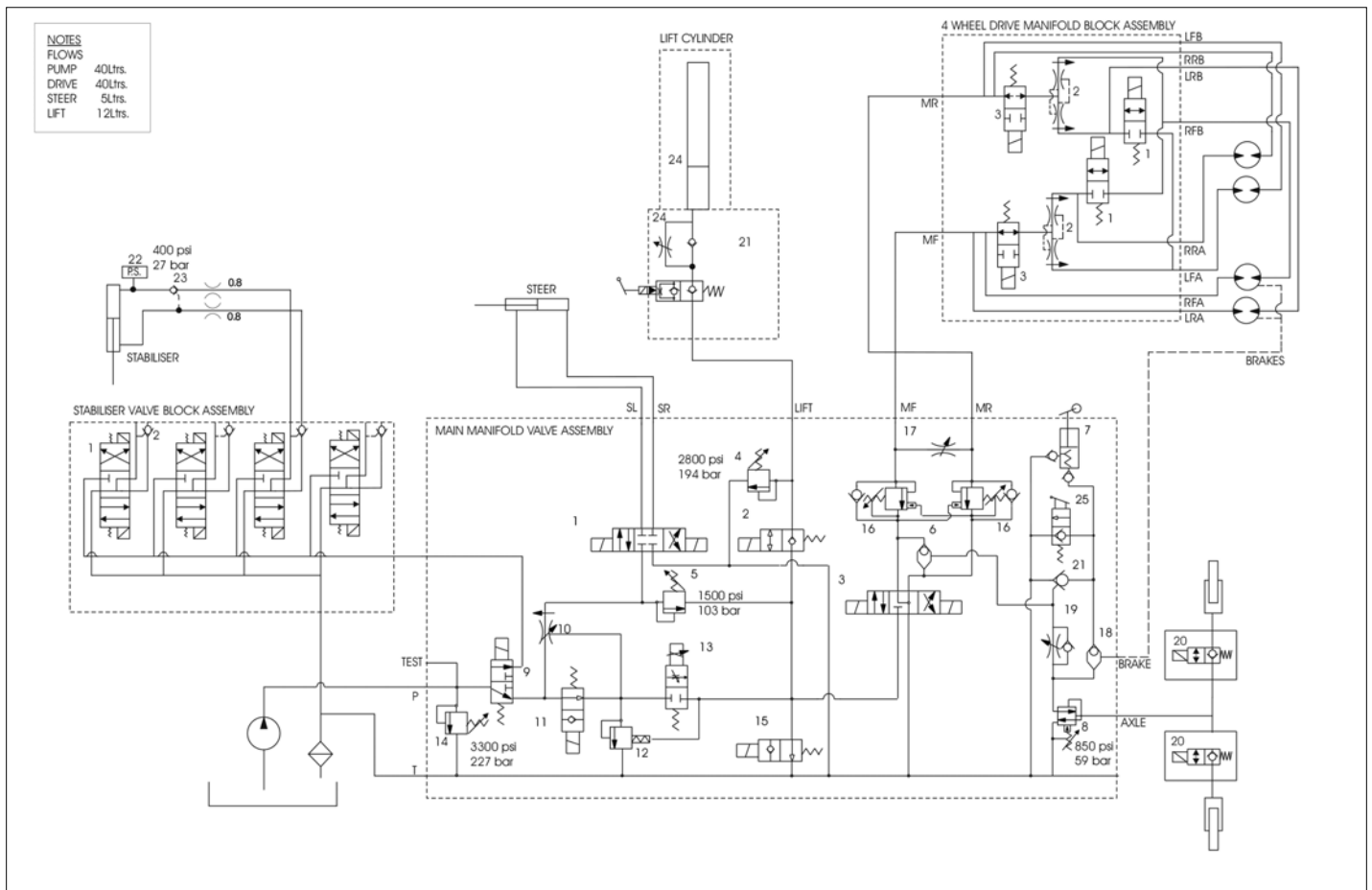
Item	Part No.	Name	Qty	Uom
0	11649	HYDRAULIC OIL RETURN FILTER ASSEMBLY	1	EA
1	301440	AE-10 Oil Filter	1	EA
Not Shown	77145	REPLACEMENT FILTER ELEMENT		EA
2	9052-4	'T' FITTING	1	EA
3	7031-009	JICM x UNO Ring M Elbow	1	EA
4	7025-008	JICM x UNO Ring Nipple	1	EA
5	10508-3	FITTING, A50531217	1	EA
6	6989-004	FITTING, 3/4" O.D. X 1:" JIC (FEM)	1	EA

HYDRAULICS

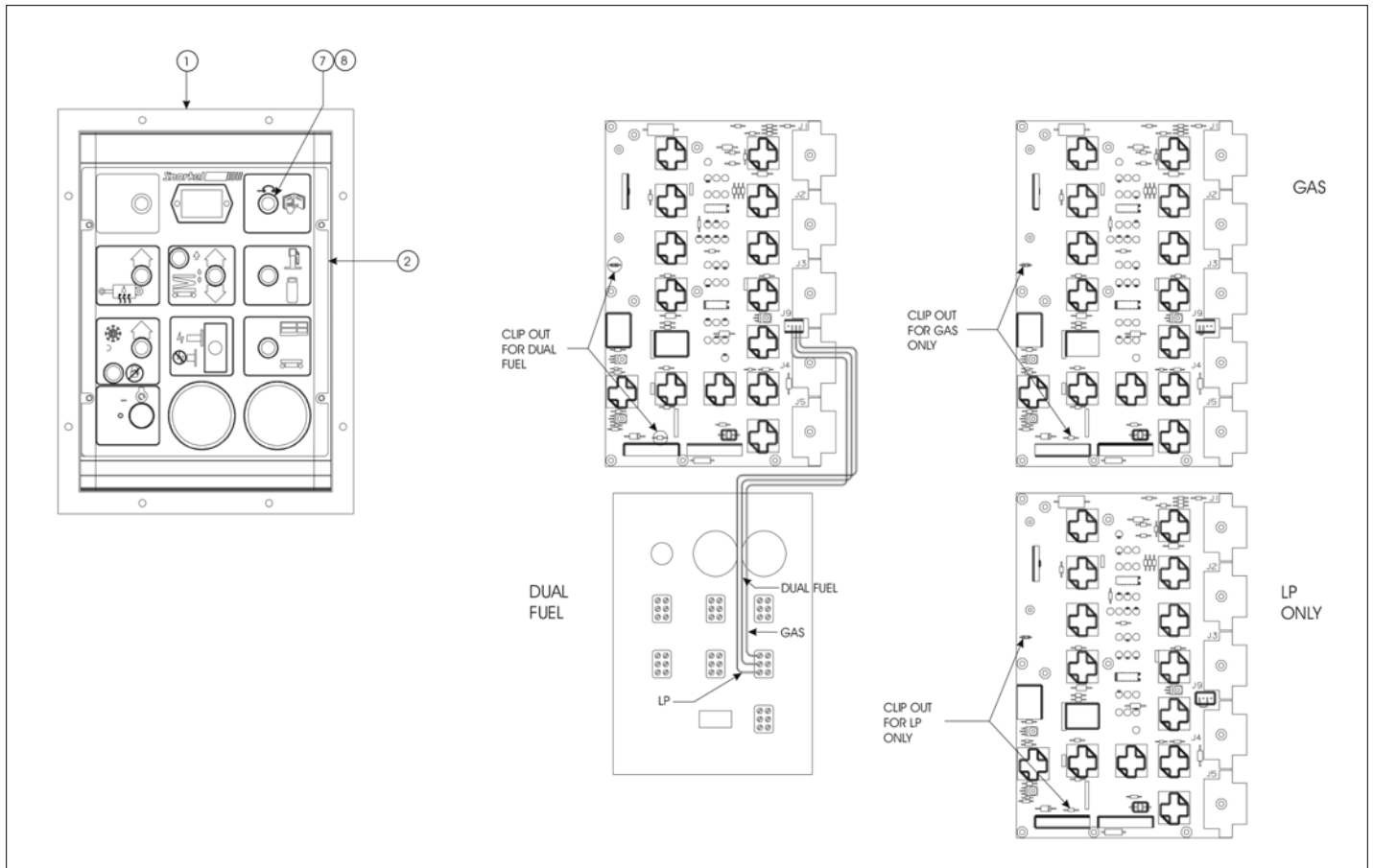


Item	Part No.	Name	Qty	Uom
0	11687A	CYLINDER ASSEMBLY, LIFT	1	EA
Not Shown	11687K	Seal Kit Victor		EA
1	PNNA	CYLINDER, LIFT	1	EA
2	561126	BEARING, 12 ID X 1: OD X 12 INCH LONG	1	EA
3	6010833	Valve Cartridge, Adjustable	1	EA
4	11687-10	CARTRIDGE, HOLDING VALVE	1	EA
5	11687-2	COIL, 12VDC	1	EA
6	560248A	LIFT LIMIT SWITCH	1	EA

HYDRAULICS

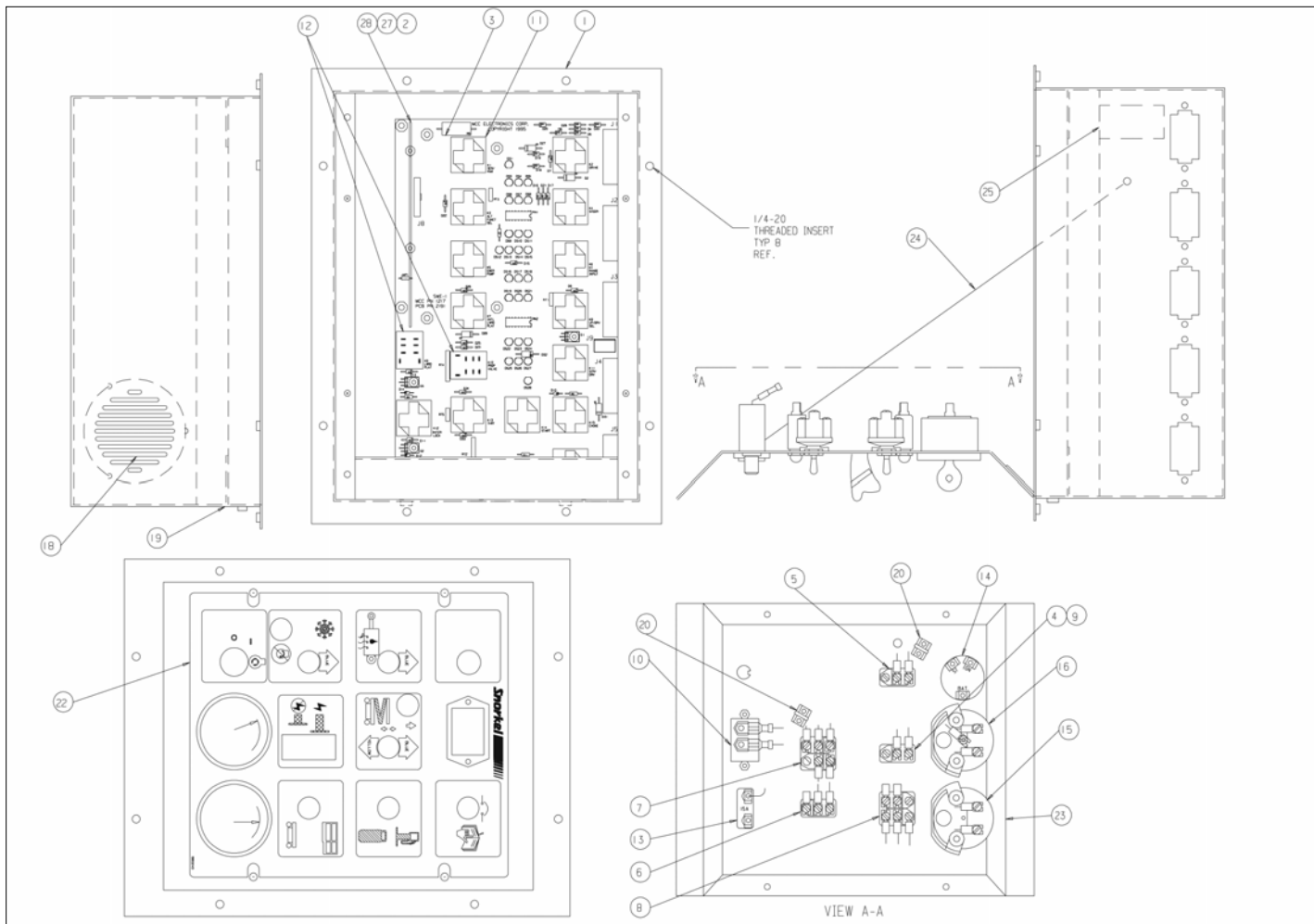


ELECTRICAL

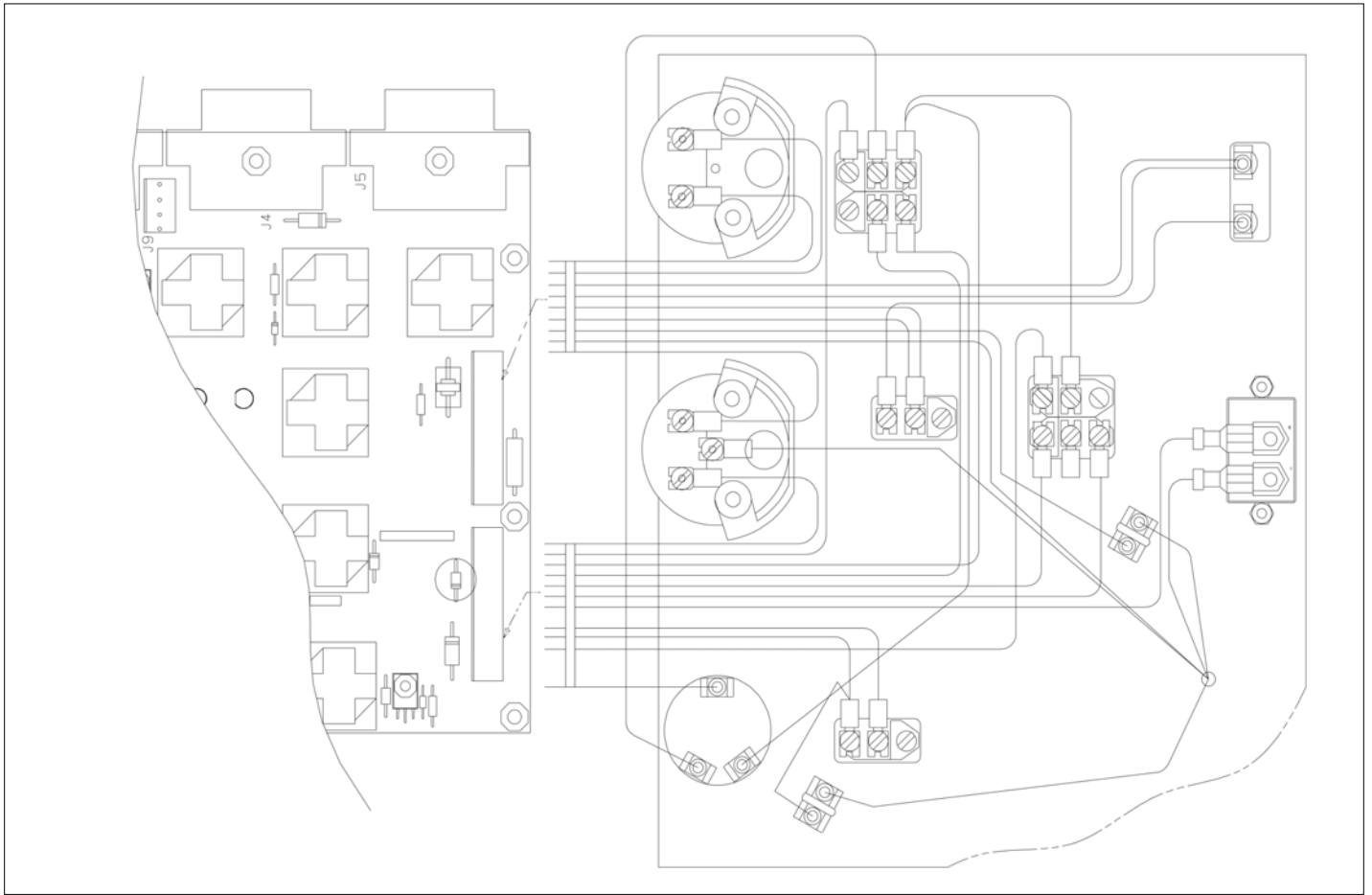


Item	Part No.	Name	Qty	Uom
-	560351	GROUND CONTROL BOX ASSEMBLY, KUBOTA D905 DIESEL UNITS		EA
1.	560222	GROUND BOX, COMPLETE	1	EA
2.	560240	DECAL, GROUND CONTROL	1	EA
7.	3040068	CIRCUIT BREAKER 20 AMP	1	EA
8.	3044167	TERMINAL #10 SPADE 16/14 WIRE	1	EA

ELECTRICAL

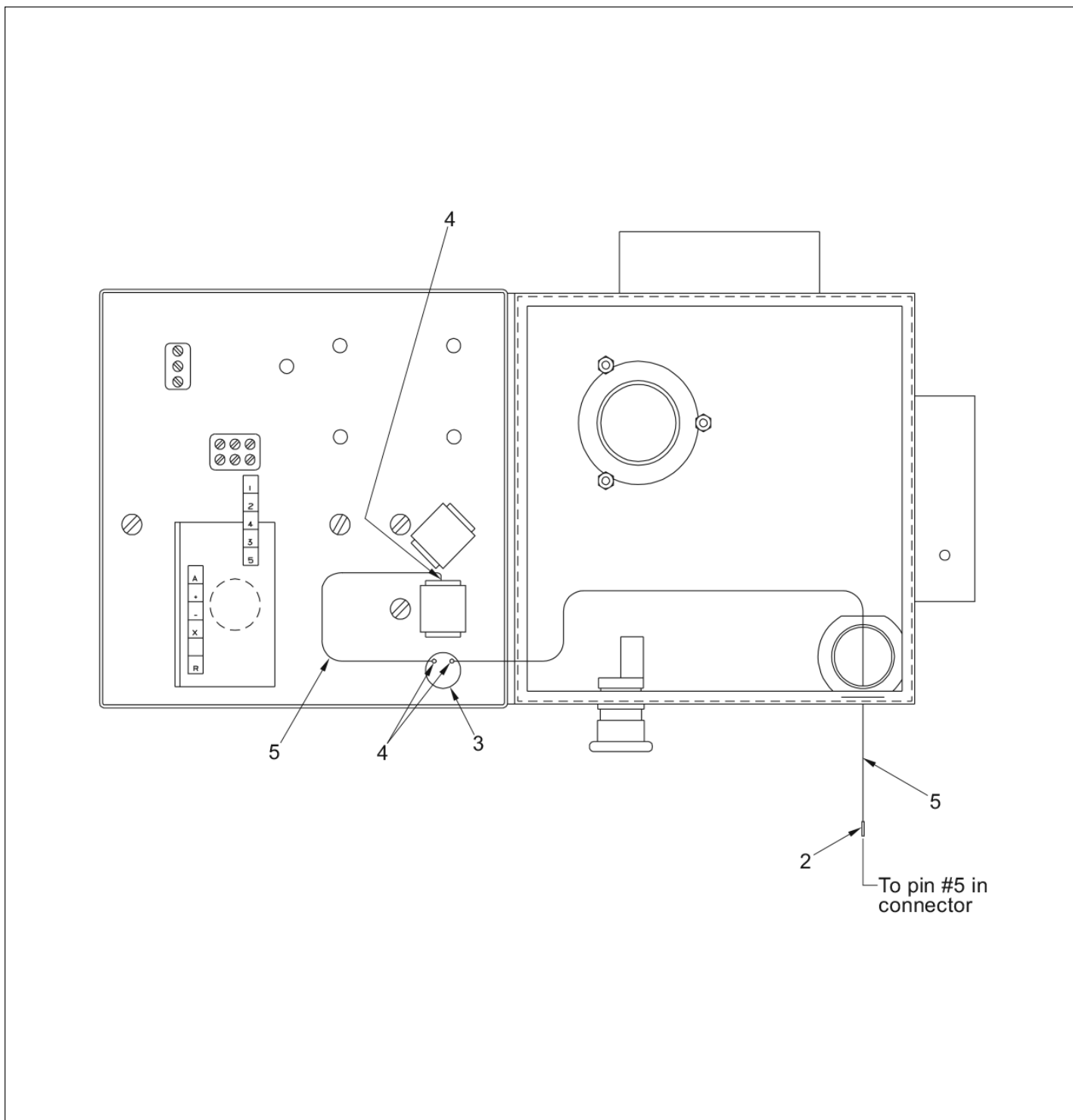


Item	Part No.	Name	Qty	Uom
0.	560222	GROUND BOX, COMPLETE	1	EA
1.	560229	GROUND ELECTRICAL BOX	1	EA
2.	560224	ALARM BOARD/DAUGHTER BOARD	1	EA
3.	560223	RELAY BOARD/MOTHER BOARD	1	EA
4.	3020013	Switch, Toggle - Honeywell INTI-2	1	EA
Not Shown	446836	SWITCH, PUSH/PULL EMERGENCY STOP	1	EA
Not Shown	446826	CONTACT BLOCK, EMERGENCY STOP	1	EA
5.	3020015	Switch, Toggle - Honeywell INTI-6	1	EA
6.	3020016	Switch, Toggle - Honeywell INTI-7	Ref	EA
7.	3010018	SWITCH, TOGGLE	1	EA
8.	3020097	Switch, Toggle - Honeywell 2NTI-3	1	EA
Not Shown	3020167	KEY SWITCH, CE ONLY	1	EA
Not Shown	3049906	MOUNTING BASE, CE ONLY	1	EA
9.	562236	SWITCH GUARD, NOT REQUIRED FOR CE	1	EA
10.	455186	HOUR METER	1	EA
11.	562326	Relay	14	EA
12.	560390	RELAY, 12 VOLT DC - 10 AMP	2	EA
13.	563686	CIRCUIT BREAKER, 15 AMP CAPACITY THERMAL	1	EA
14.	3020087	KEY SWITCH	1	EA
Not Shown	10113	START SWITCH, CE ONLY	1	EA
Not Shown	9776	MOUNTING BASE, CE ONLY	1	EA
Not Shown	10114	Contact, NO - Telemac ZBE-101	1	EA
15.	560394	TEMPERATURE GAUGE	1	EA



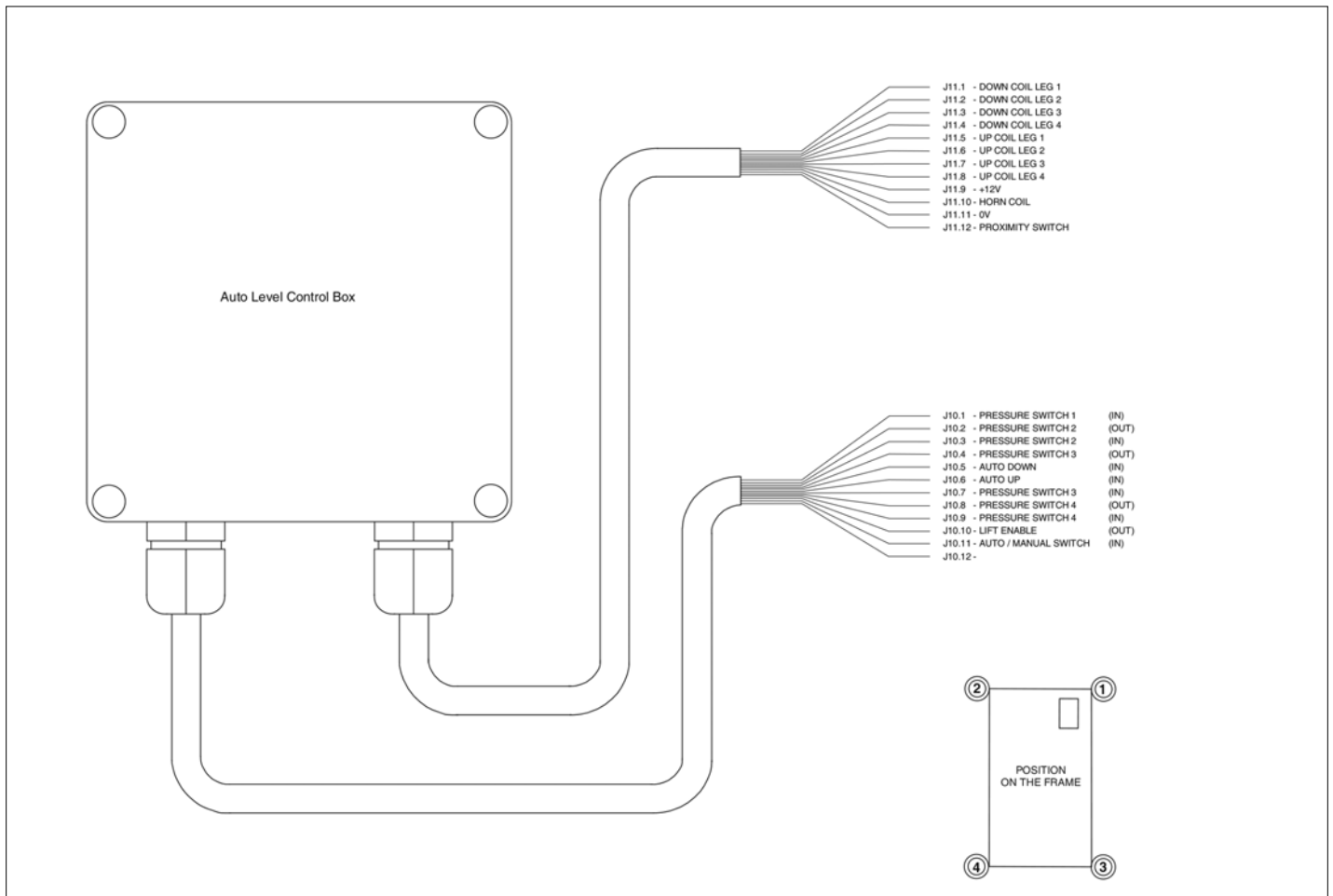
Item	Part No.	Name	Qty	Uom
16.	560396	AMMETER	1	EA
17.	560397	INTERNAL WIRE HARNESS	1	EA
18.	302832	SPEAKER	1	EA
19.	302882	DRAIN PLUG	1	EA
20.	560377	LED LAMP, GREEN 12 VOLT	1	EA
21.	3040068	CIRCUIT BREAKER 20 AMP	Ref	EA
22.	560240	DECAL, GROUND CONTROL	Ref	EA
23.	560398	GASKET	1	EA
24.	560389	DOOR RESTRAINT CABLE	1	EA
25.	0070967	CORROSION INHIBITOR STICK- BACK	1	EA
26.	560395	TEMP SENSOR	1	EA
27.	302856	BRACKET FOR DAUGHTER BOARD	2	EA
28.	302855	STAND-OFF FOR DAUGHTER BOARD	2	EA

ELECTRICAL

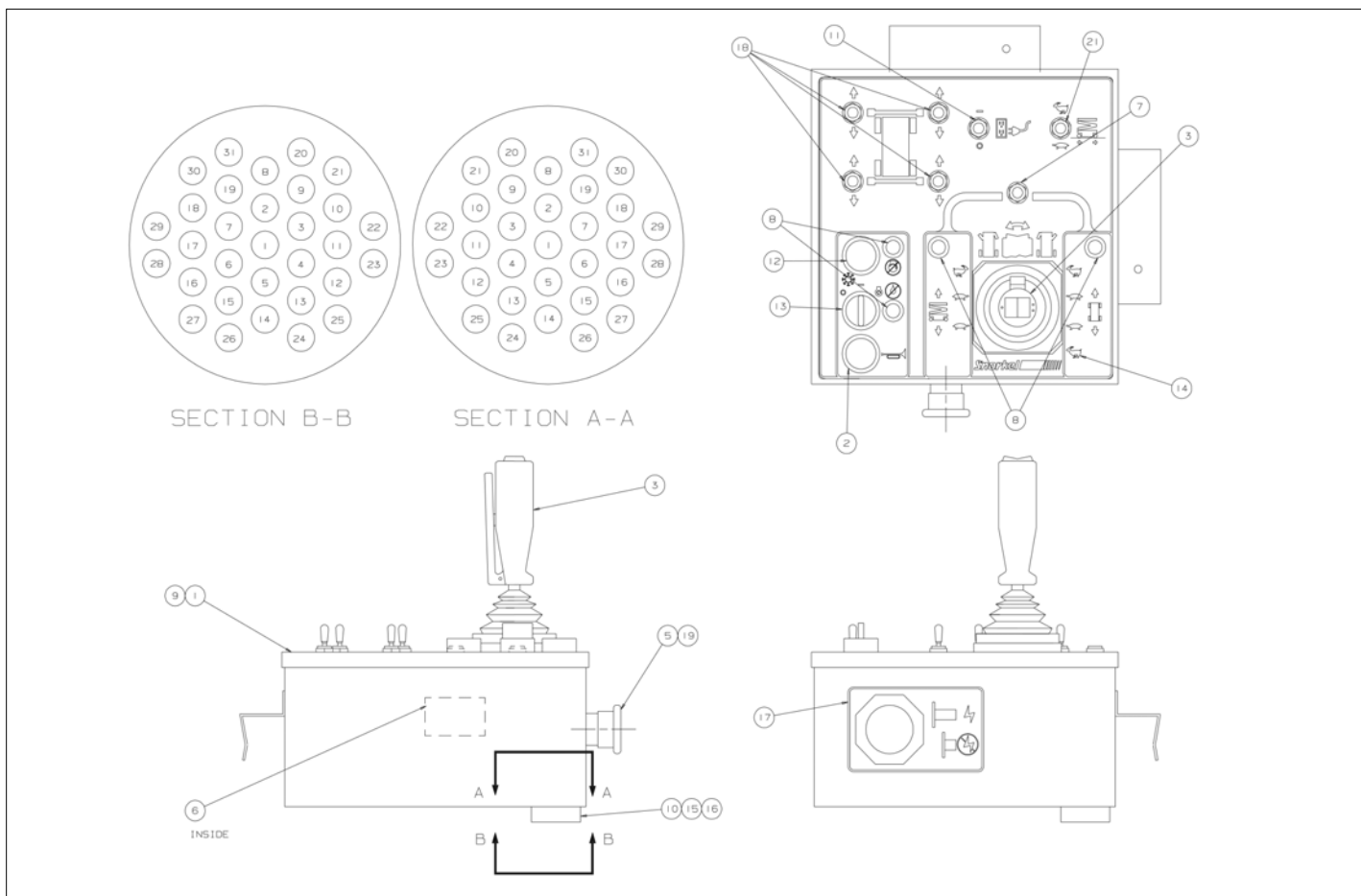


Item	Part No.	Name	Qty	Uom
1	560331	OPERATOR HORN KIT (HORN KIT INCLUDES ITEMS 2 THROUGH 5)	1	EA
2	3040341	PIN CONTACT SIZE 16 16/18 GA-	1	EA
3	560332	SWITCH, OPERATOR HORN OPTION	1	EA
4	960359	TERM SPADE6I 18-14 GA	1	EA
5	964749	WIRE 16 GAUGE SINGLE CONDUCTOR RED X 18 INCHES	1	EA

ELECTRICAL



ELECTRICAL



Item	Part No.	Name	Qty	Uom
0.	560221	PLATFORM CONTROL BOX ASSEMBLY	1	EA
1.	560228	PLATFORM CONTROL BOX	1	EA
2.	560332	SWITCH, OPERATOR HORN OPTION	1	EA
3.	560225	JOYSTICK CONTROLLER	1	EA
4.	560376	INTERNAL WIRE HARNESS	1	EA
5.	446836	SWITCH, PUSH/PULL EMERGENCY STOP	1	EA
6.	0070967	CORROSION INHIBITOR STICK-BACK	1	EA
7.	3020097	Switch, Toggle - Honeywell 2NTI-3	1	EA
8.	560377	LED LAMP, GREEN 12 VOLT	4	EA
9.	560375	GASKET	1	EA
10.	3049847	ELECTRICAL CONNECTOR	1	EA
11.	563736	SWITCH, TOGGLE	1	EA
12.	560332	SWITCH, OPERATOR HORN OPTION	1	EA
13.	560379	SWITCH, START/KILL	1	EA
14.	560241	PLACARD, PLATFORM CONTROL BOX	1	EA
15.	3040099	ELECTRICAL CONNECTOR LOCK WASHER	1	EA
16.	3040098	ELECTRICAL CONNECTOR LOCK NUT	1	EA
17.	560272	PLACARD, EMERGENCY STOP	1	EA
18.	3020016	Switch, Toggle - Honeywell INTI-7	4	EA
19.	446826	CONTACT BLOCK, EMERGENCY STOP	1	EA
20.	560378	DIODE WIRE ASSEMBLY	1	EA
21.	563736	SWITCH, TOGGLE	1	EA

NOTES:

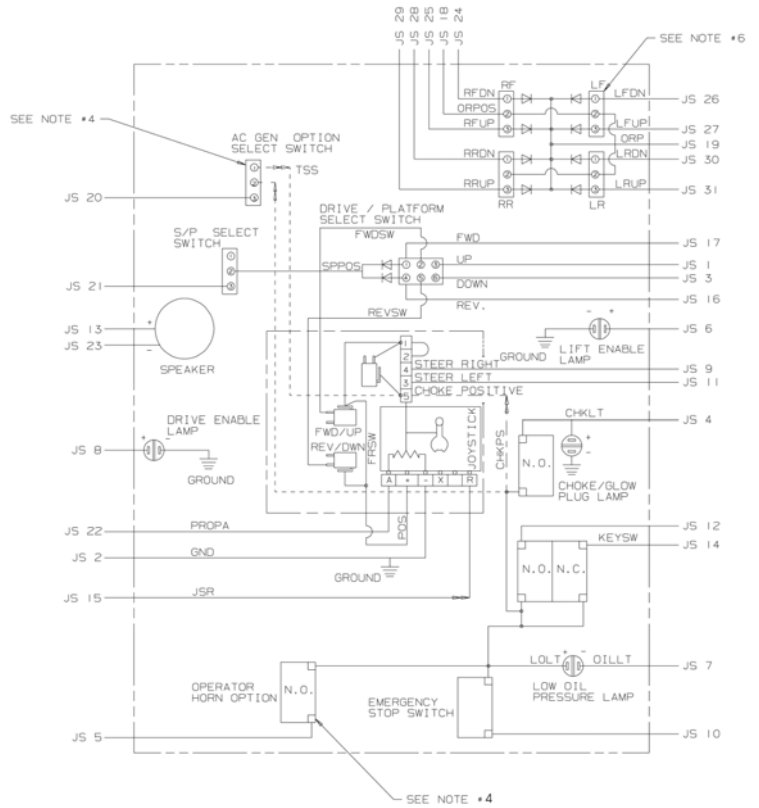
1. STAMP EACH ASSEMBLY WITH MANUFACTURING DATE CODE, SNORKEL PART NUMBER (560221) AND REVISION LEVEL.
2. EACH ASSEMBLY TO BE FUNCTIONALLY TESTED FOR ALL INPUTS AND OUTPUTS.
3. IF THE AC GENERATOR OPTION IS INSTALLED, REMOVE WIRE LABELED TSS FROM TERMINAL #5 ON SIDE OF JOYSTICK CONTROLLER AND REROUTE TO CENTER POST OF AC GENERATOR SWITCH. RUN NEW WIRE FROM TOP POST OF SWITCH TO TERMINAL #5 ON JOYSTICK CONTROLLER.
4. USED ONLY IF HORN OPTION IS INSTALLED.
5. USED ONLY IF OUTRIGGERS ARE INSTALLED.

PIN #		12 PIN PLATFORM CONTROL CABLE CONN.	
JS 1	J2.1	RAISE FROM PLATFORM	
JS 2	J2.2	PLATFORM GROUND WIRE	
JS 3	J2.3	LOWER FROM PLATFORM	
JS 4	J2.4	CHOKE/GLOW PLUG SWITCH AT PLATFORM	
OPT JS 5	J2.5	OPERATOR HORN OPTION	
OPT JS 6	J2.6	LIFT ENABLE LAMP	
JS 7	J2.7	PLATFORM LOW OIL PRESSURE LAMP	
JS 8	J2.8	PLATFORM DRIVE ENABLE LAMP	
JS 9	J2.9	STEER RIGHT	
JS 10	J2.10	POWER TO PLATFORM (14 GA)	
JS 11	J2.11	STEER LEFT	
JS 12	J2.12	START SWITCH FROM PLATFORM	

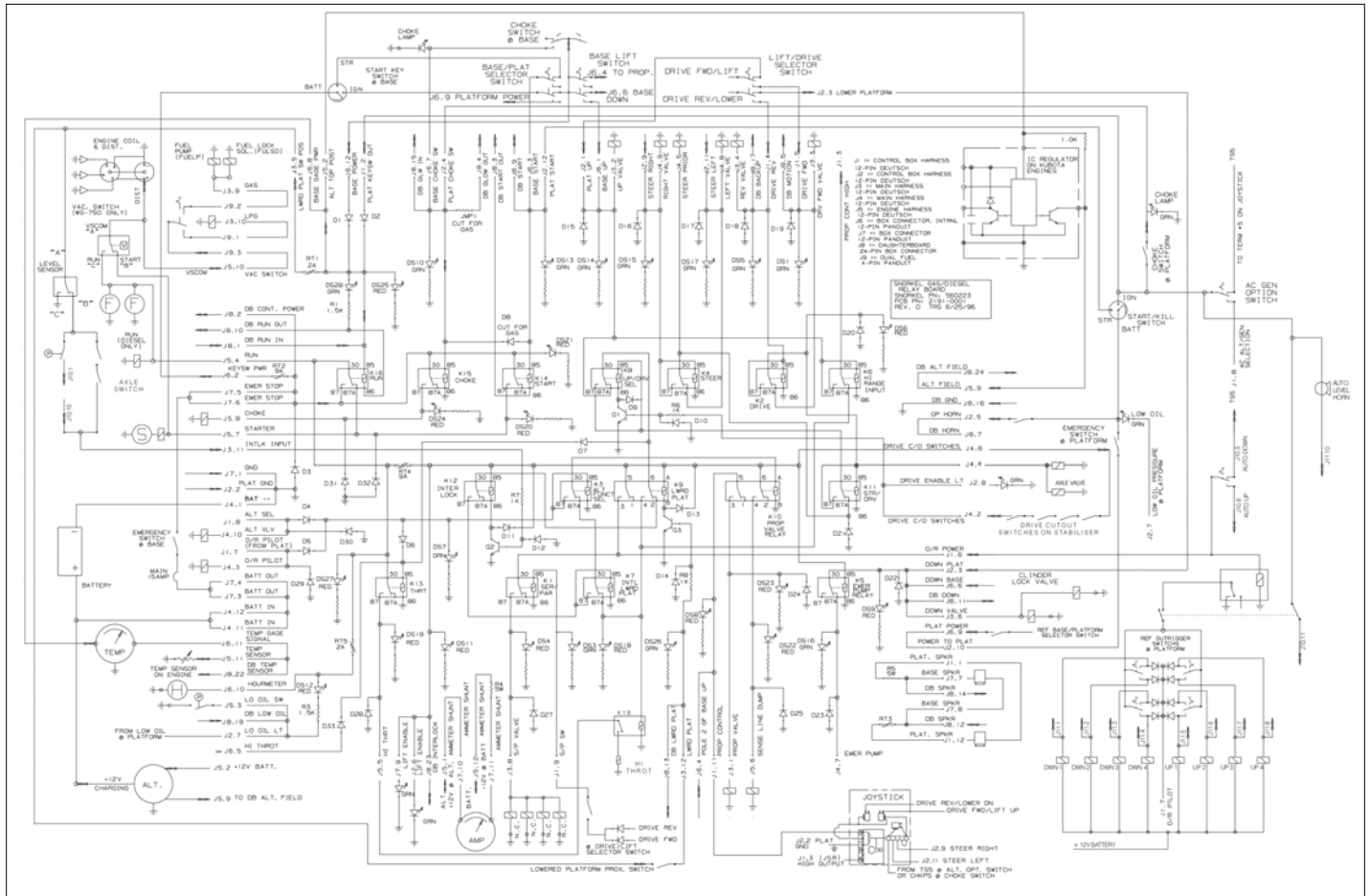
PIN #		12 PIN PLATFORM CONTROL CABLE CONN.	
JS 13	J1.1	PLATFORM SPEAKER	
JS 14	J1.2	PLATFORM REVERSE SWITCH OUT	
JS 15	J1.3	PROPORTIONAL HIGH OUTPUT	
JS 16	J1.4	DRIVE REVERSE	
JS 17	J1.5	DRIVE FORWARD	
OPT JS 18	J1.6	OUTRIGGER POWER	
OPT JS 19	J1.7	OUTRIGGER PILOT FROM PLATFORM	
OPT JS 20	J1.8	ALTERNATOR SELECT	
JS 21	J1.9	S/P SWITCH	
JS ---	J1.10	---	
JS 22	J1.11	PROPORTIONAL CONTROL	
JS 23	J1.12	PLATFORM SPEAKER	

OPT JS 24	JS .1	OUTRIGGER RF DOWN	
OPT JS 25	JS .2	OUTRIGGER RF UP	
OPT JS 26	JS .3	OUTRIGGER LF DOWN	
OPT JS 27	JS .4	OUTRIGGER LF UP	
OPT JS 28	JS .5	OUTRIGGER RR DOWN	
OPT JS 29	JS .6	OUTRIGGER RR UP	
OPT JS 30	JS .7	OUTRIGGER LR DOWN	
OPT JS 31	JS .8	OUTRIGGER LR UP	

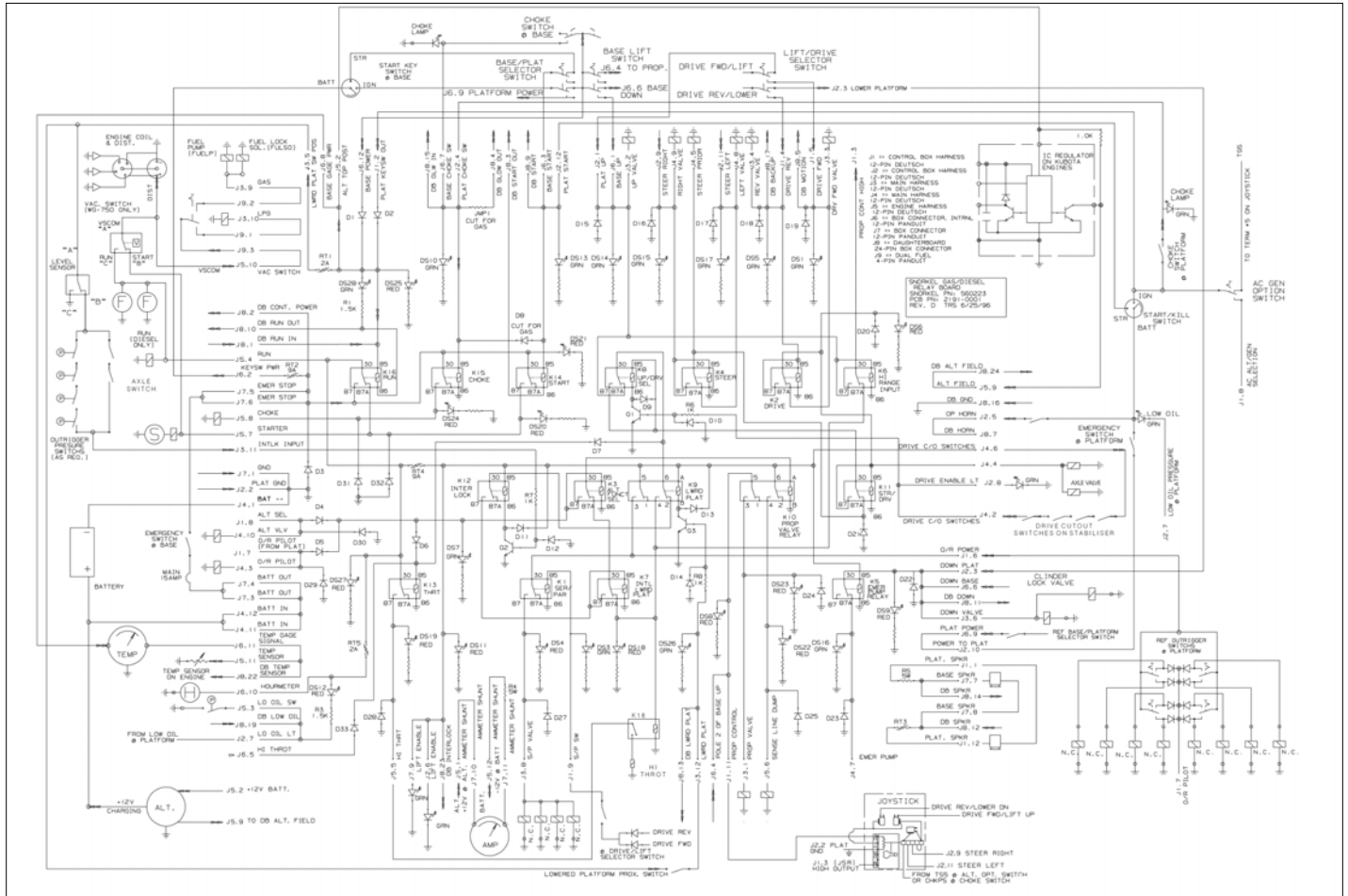
** IN-PUT FROM JSR (JS 15) ONLY IF LOWER PLATFORM SWITCH IS MADE!



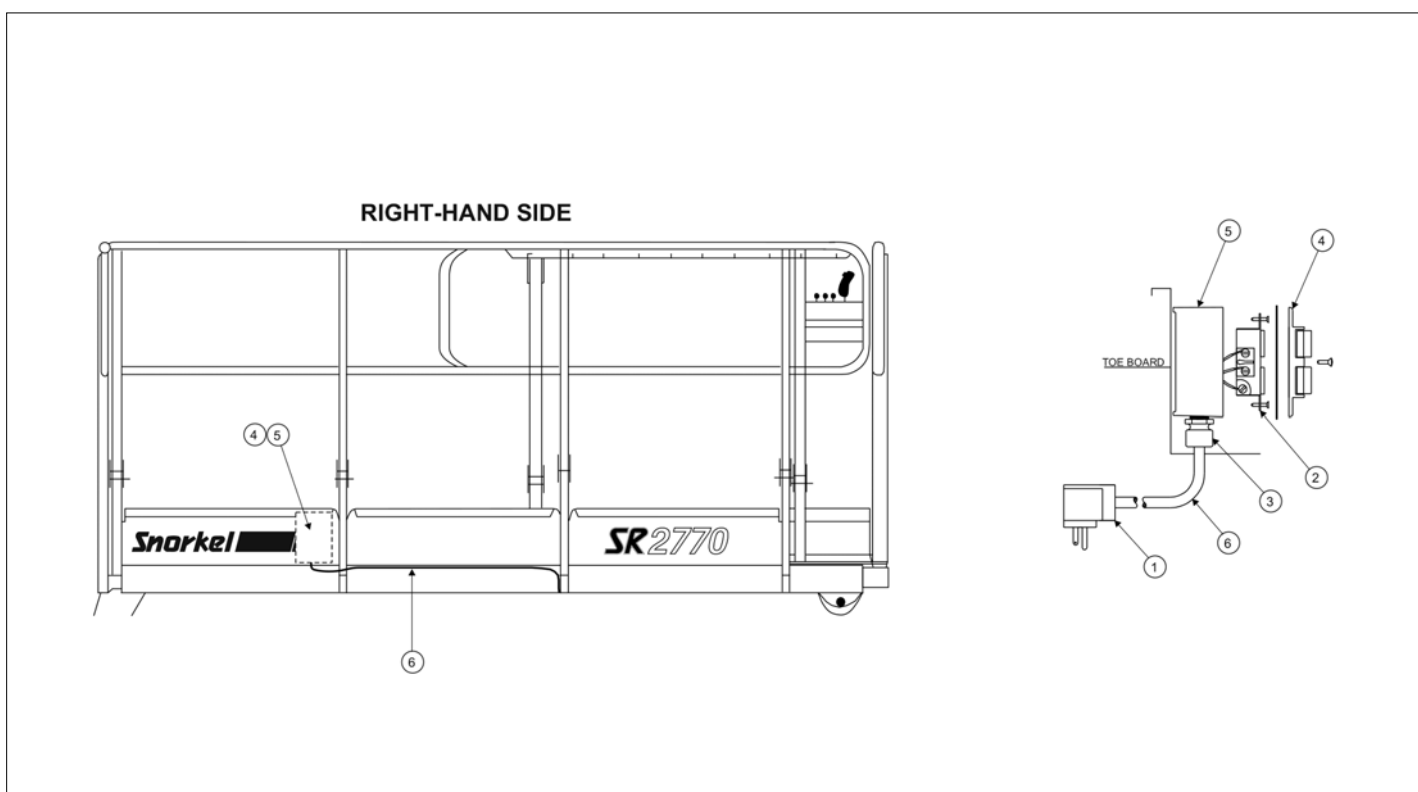
ELECTRICAL



ELECTRICAL

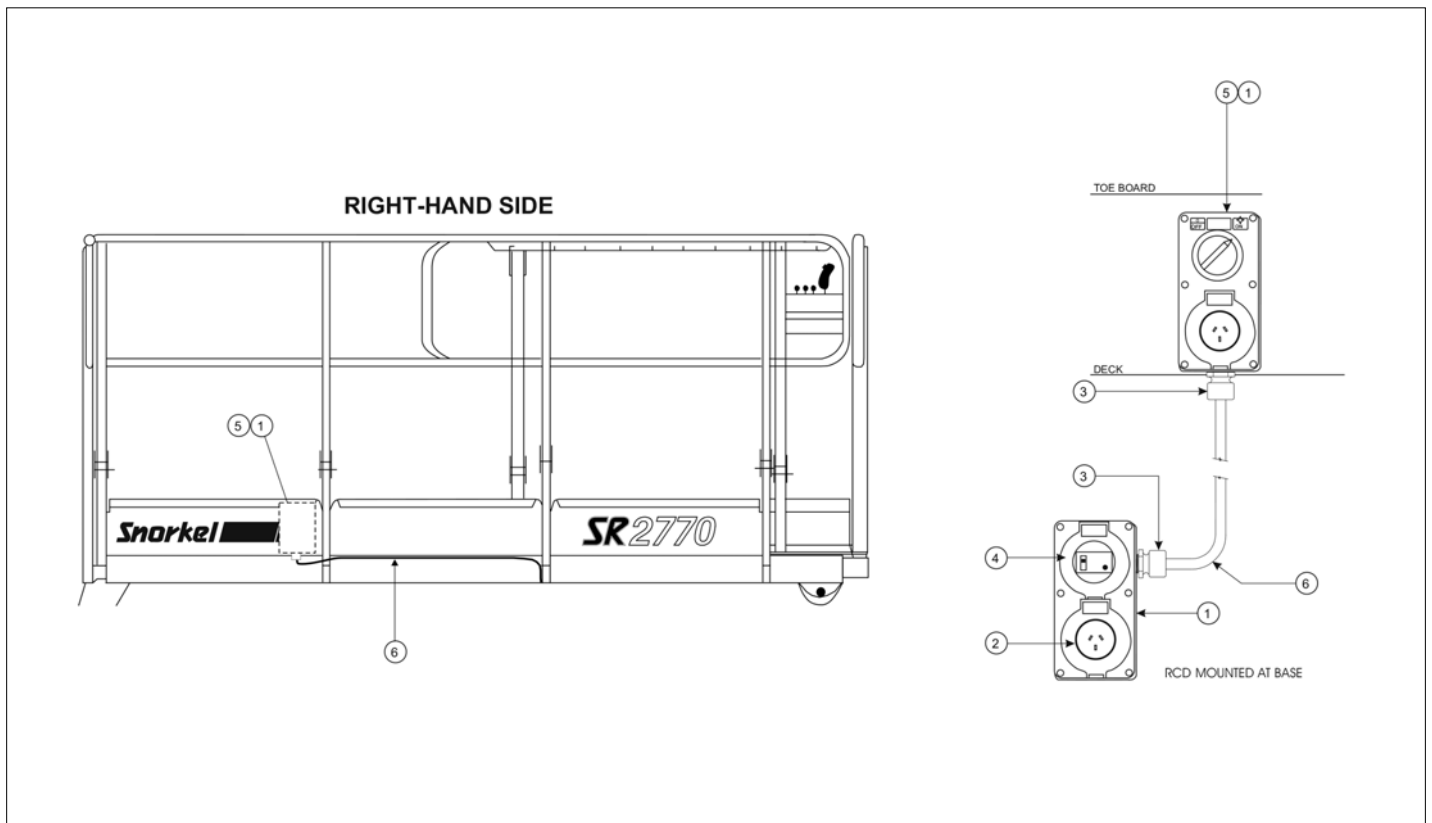


OPTIONS



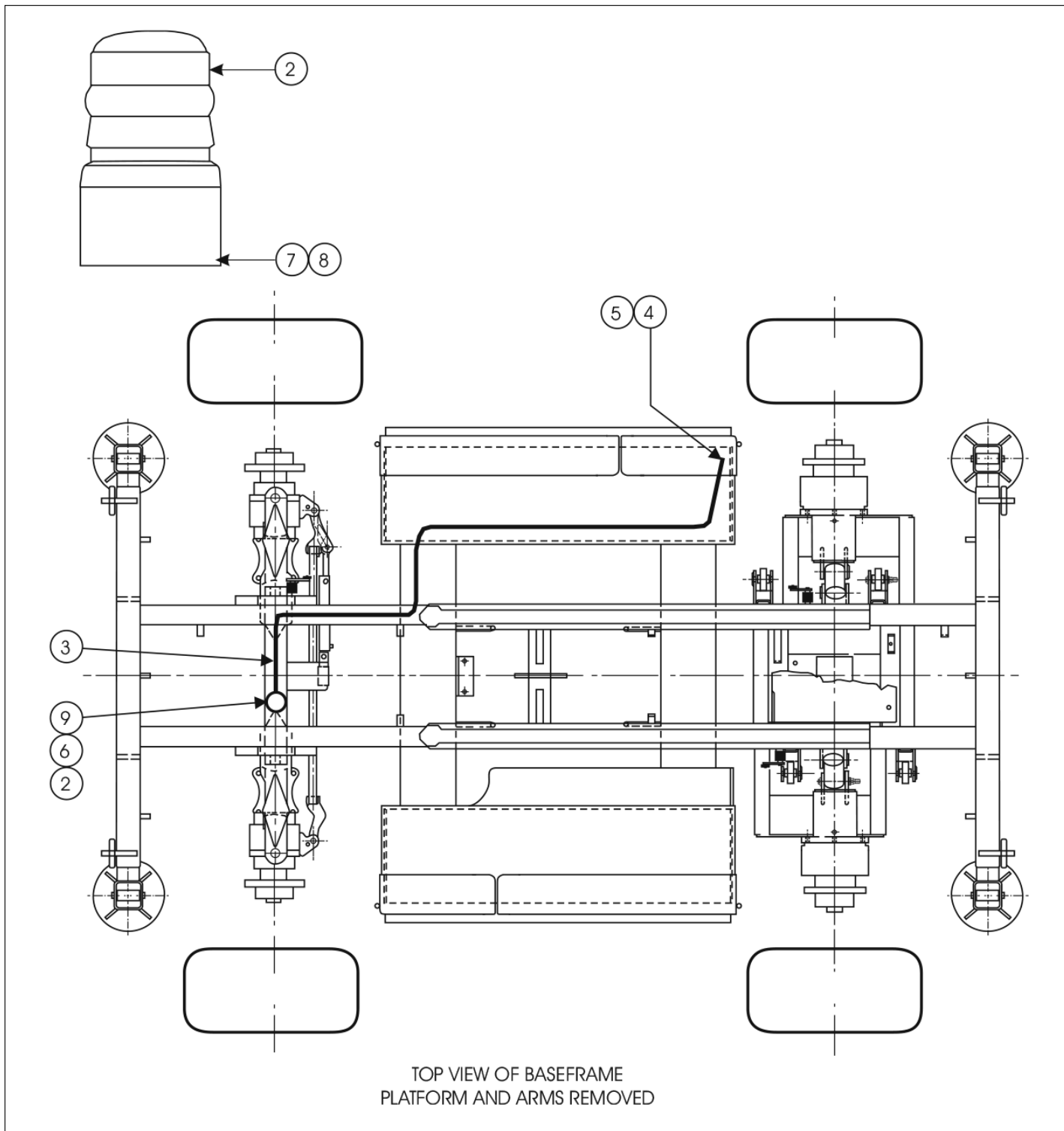
Item	Part No.	Name	Qty	Uom
1.	3040219	PLUG MALE CONNECTOR 90D 125VAC	1	EA
2.	960779	DUPLEX OUTLET, STANDARD	1	EA
Not Shown	3040624	Recepticle Outlet 20AMP	1	EA
3.	3040115	CONN .500 .375-.500	1	EA
4.	3045211	WEATHERPROOF OUTLET COVER, STANDARD	1	EA
Not Shown	3040625	Enclosure Face	1	EA
5.	3040297	WEATHERPROOF AC OUTLET BOX	1	EA
6.	1812	3 CORE X 1.5 TPE FLEX CABLE	23 L.M.	EA

OPTIONS



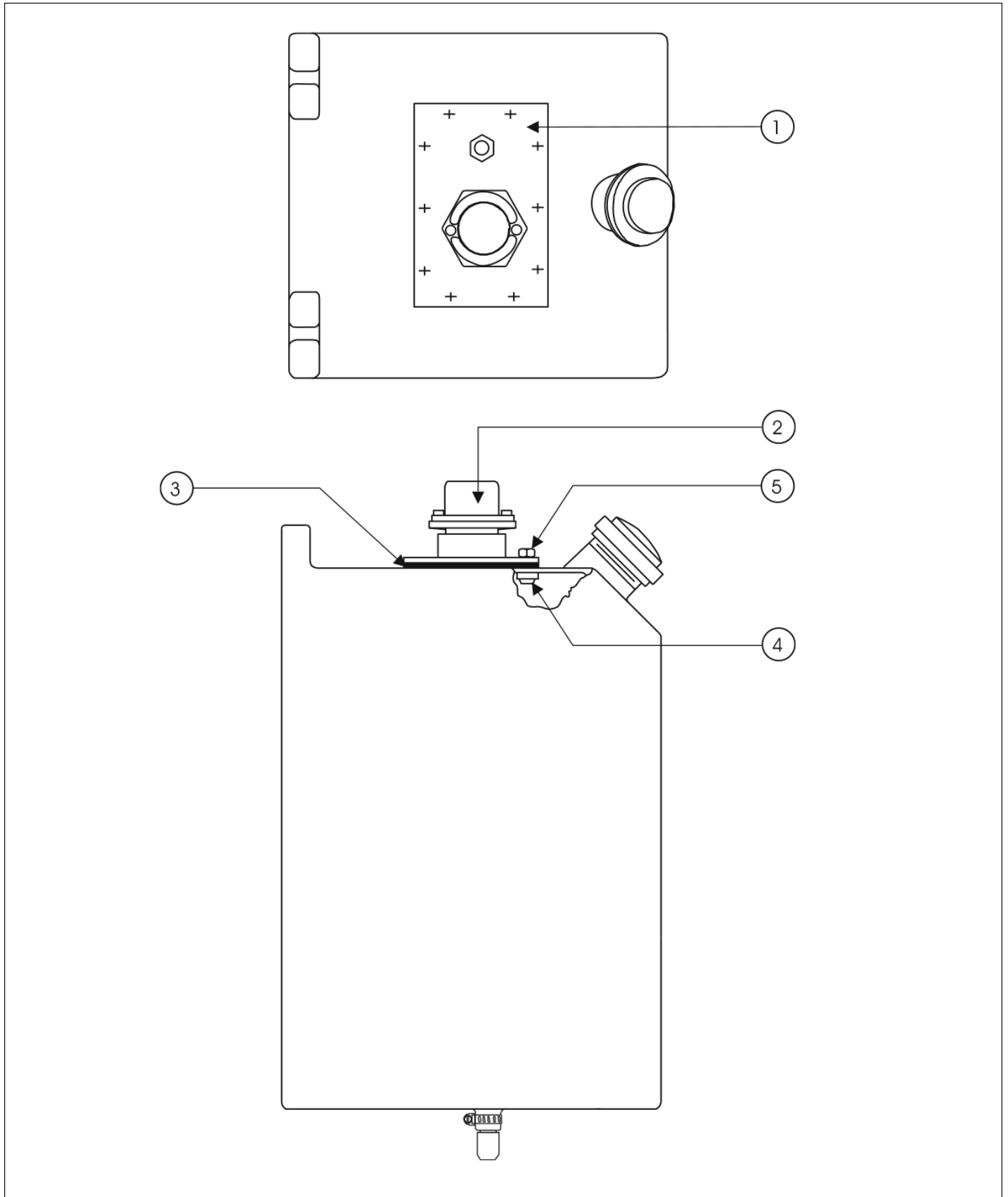
Item	Part No.	Name	Qty	Uom
1.	10967-3	PDL Enclosure	2	EA
2.	10967-1	Residual current device (with appliance inlet pins)	1	EA
3.	1814	Cable Gland	2	EA
4.	10967-2	Appliance Inlet	1	EA
5.	2500-014	SWITCH OUTLET	1	EA
6.	1812	3 CORE X 1.5 TPE FLEX CABLE	1	EA

OPTIONS



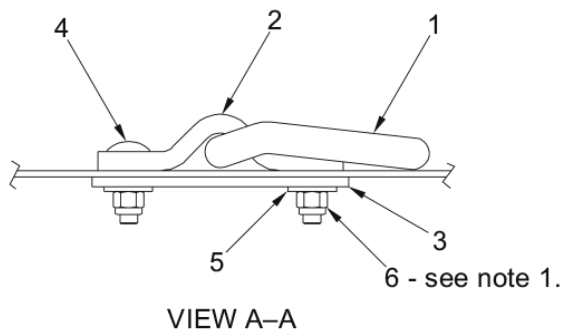
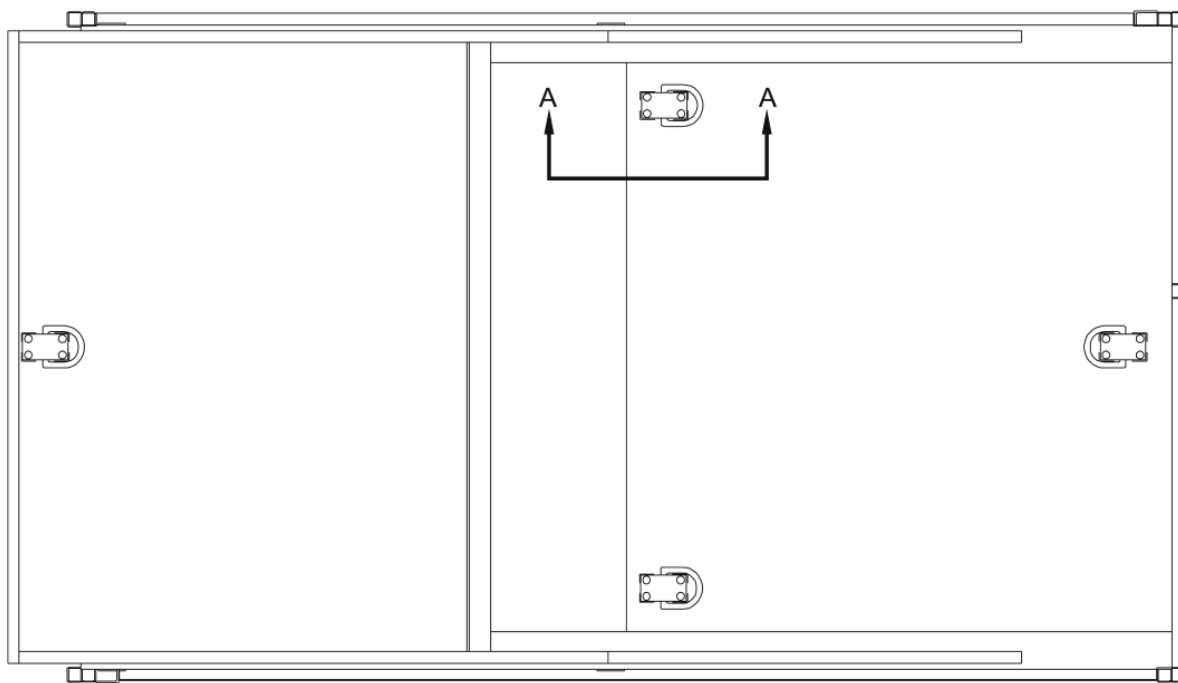
Item	Part No.	Name	Qty	Uom
1.	10746	OPTION FLASHING LIGHT	Ref	EA
2.	10745	FLASHING LIGHT	1	EA
3.	1802	FLASHING LIGHT HARNESS 2 CORE	1	EA
4.	1853-010	TERMINAL 1/4 INCH RING TONGUE FULLY INSULATED 16/14 WIRE	1	EA
5.	304-0082	TERMINAL, MALE SLIP ON INS	1	EA
6.	1853-002	RING TERMINAL UTILUX H 4115	1	EA
7.	3603-04	Plain Washer	3	EA
8.	3604-04020	Pan Head Screw	3	EA
9.	1853-004	H3561 CONNECTOR	1	EA

OPTIONS



Item	Part No.	Name	Qty	Uom
0.	11507	FUEL GAUGE OPTION	1	EA
1.	11430-9	TOP PLATE FUEL TANK	1	EA
2.	0070483	Fuel Gauge, 375mm (14.75")	1	EA
3.	11430-5	Gasket	1	EA
4.	11430-1	Base Plate Weld	1	EA
5.	3611-06	Metric Nyloc Nut	10	EA

OPTIONS



Notes:

- 1. Torque all self locking nuts (item 6) - 25 foot pounds.

Item	Part No.	Name	Qty	Uom
1.	424626	D-RING TIE DOWN	4	EA
2.	302609	LANYARD ATTACHMENT BRACKET	4	EA
3.	302610	LANYARD ATTACHMENT PLATE	4	EA
4.	PNNA	CARRIAGE BOLT 3/8-16 X 1 1/4 INCH LONG GRADE 5	16	EA
5.	PNNA	WASHER 3/8 MEDIUM FLAT	16	EA
6.	5560033	.375-16UNC HEX LOCK NUT	16	EA

■ About this Manual:

This Maintenance and Repair Parts manual covers current production machines only.

While Snorkel has attempted in every way to confirm that all information in this manual is correct, improvements are being constantly made to the machine that may not be reflected in this manual.

NOTE:

It is recommended that you record the serial and model number of your machine (see page 15 of this chapter). This information is found on the serial number placard.

■ Manual Organization

The Repair Parts Manual consists of six sections with an individual table of contents preceding sections 1 through 4.

Subassemblies and detailed parts are identified by index numbers on the drawings that correspond to the item numbers on the parts listing. When requesting any part, always specify complete part number, description, model and serial number of your unit.

The following is a general description of each section and its contents.

□ General Specifications

The section immediately preceding, contains information relating to the general specifications of the SR2770.

□ Maintenance

The pages immediately following, contain information as to the maintenance schedules - lubricants and procedures for proper lubrication of the unit.

□ Repair parts and drawings

Repair Parts (Section 1), contains parts listings and drawings for general mechanical repair parts of all major installations and subassemblies of the unit. Hydraulics

□ Hydraulics

(Section 2), contains parts listings and drawings of hydraulic components installations including hydraulic schematics and individual components such as cylinders, controls valves and solenoid operated valves.

□ Electrical

Electrical (Section 3), contains listings and drawings of electrical components installations including wiring schematics.

□ Options

Options (Section 4), contains parts listings and drawings of optional installations that may be installed on your unit.

□ Parts index - Page locator

The parts index - page locator, identifies the component by name and directs you to the section and page number where you may find information for that part such as its part order number, etc.

■ Maintenance and Schematics

□ Maintenance information

The parts drawings located in the repair parts sections, are designed for use as a guide for proper disassembly of the machine and components as well as for parts replacement. Always refer to the hydraulic system installation drawings and the electrical wiring diagram before removing or disassembling associated parts.

▲ CAUTION

Do not attempt to disconnect or remove any hydraulic line before reading and understanding all text concerning the system hydraulics. In most cases, disassembly of the machine will be obvious from the drawing.

▲ CAUTION

DO NOT modify this ariel platform without prior written consent of Snorkel Engineering Department.

Modification may void the warranty, adversely affect stability, or affect the operational characteristics of the ariel platform.

When disassembling or reassembling components, complete the procedural steps in sequence. Do not partially disassemble or assemble one part, then start on another. Always check your work to assure that nothing has been overlooked.

The following list is a gentle reminder when disassembling or assembling the machine.

Maintenance Information

- ✓ Always be conscious of weight.
- ✓ Never attempt to lift heavy objects without the aid of a mechanical device.
- ✓ Do not allow heavy objects to rest in an unstable condition.
- ✓ Always make sure work platform is in stowed position - blocked or the weight removed by a suitable lifting device before disconnecting the hydraulic hose from the motor/pump unit to the lift cylinder.
- ✓ When raising a portion of the machine, be sure that adequate blocking is properly positioned - Do not depend on lifting device to hold and secure weight.
- ✓ If a part resists removal, check to see if all fasteners, electrical wiring, hydraulic lines, etc., have been removed or that other parts are not interfering.

Parts should be thoroughly inspected before restoring to service at the time of reassembly. Burrs, nicks or scratches may be removed from machined surfaces by honing or polishing with #600 crocus cloth, followed by a thorough cleaning in an approved cleaning solvent, and blown dry with compressed air. Do not alter the contour of any part. If this operation does not restore the part to a serviceable condition, replace the part.

Replace all O-rings, seals, and gaskets at reassembly. Use new roll pins or cotter pins. Dip all packing rings and seals in hydraulic oil before reassembling in cylinder and manifold installations. Replace any part having imperfect threads. In general, units that have been disassembled can be reassembled by reversing the order of disassembly.

Remember that the service life of a machine can be increased by keeping dirt and foreign materials out of the vital components. Precautions have been taken to safeguard against this; shields, covers, seals and filters are provided to keep air and oil supplies clean; however, these items must be maintained on a scheduled basis in order to function properly.

At any time air or oil lines are disconnected, clean surrounding areas as well as the opening and fittings themselves. As soon as a line or component is disconnected, cap or cover all openings to prevent the entry of dirt or foreign materials.

New parts should remain in their container until they are ready to be used.

Clearly mark or tag hydraulic lines and electrical wiring connections when disconnecting or removing them from unit. This will assure that they are correctly reinstalled.

Proper assembly is critical to the successful rebuilding of any unit. Carefully inspect any parts which are to be reused. If in doubt, replace.

“**SAFETY FIRST**” is a good slogan.

Replace any guards and protective devices that have been removed to carry out maintenance and repair work.

■ Maintenance schedules

Snorkel has established a Preventive Maintenance Schedule that includes:

- ✓ Daily Maintenance (Operator's Inspection)
- ✓ 90 Day or 150 Hour (frequent) Maintenance
- ✓ Yearly or 500 Hour (annual) Maintenance,

These schedules should ensure the detection of any defective, damaged or improperly secured parts and provide information regarding lubrication and other minor maintenance items.

The Maintenance Schedule following, outlines the requirements of these maintenance checks for each time interval. The Operator's Pre-operational inspection must be performed by a trained operator. All other maintenance and inspections must be performed by a trained service technician only.

Note that the 90 Day or 150 hour (frequent) and yearly or 500 hour (annual) Maintenance, require use of the Preventive Inspection Maintenance Checklist to pinpoint all inspection items. Retain a copy of these forms for your records.

They also require that all placards and decals on the unit are to be inspected.

All placards and decals must be in place and legible. Use the placards installation drawing and parts listing in the repair parts section 1 of this manual to check these placards and decals.

Snorkel recommends that you make additional copies of the Preventive Inspection Maintenance Checklist forms for your use in performing these

▲ DANGER

Failure to perform the Preventive Maintenance at the intervals outlined in the Maintenance Schedule may result in a unit being operated with a defect that could result in INJURY or DEATH of the unit operator. DO NOT allow a unit to be operated that has been found to be defective.

Repair all defects before returning the unit to service

■ Daily Maintenance

Pre-operational inspection

(Set the KEY SWITCH to off before starting this inspection).

COMPONENTS	SERVICE REQUIRED
Fuel level	Visually inspect
Water separator (diesel engines only)	Visually inspect (condition)
Fuel leaks	Visually inspect (hoses, connections, etc)
Engine Oil	Check oil level (between dipstick lines)
Engine coolant	Check fluid level and radiator hoses
Radiator cap	Visually inspect (installation)
Platform entrance gate	Visually inspect (installation, operation)
Wiring harness and connectors	Visually inspect (installation, condition)
Battery terminals	Visually inspect (installation)
Hydraulic oil reservoir cap	Visually inspect (installation)
Hydraulic oil level	Check fluid level (at line on side of tank)
Hydraulic oil leaks	Visually inspect (hoses, tubes)
Tires and wheels	Visually inspect (condition)
Bolts and fasteners	Visually inspect (looseness)
Structural damage & welds	Visually inspect (weld cracks, dents)
Platform guardrails	Visually inspect (condition)
Lanyard anchor points	Visually inspect (condition)
Bubble level indicator	Visually inspect (condition)
Guides, rollers and slides	Visually inspect (condition)
START THE ENGINE FROM THE BASE CONTROL PANEL TO CHECK THE FOLLOWING	
Charging system	Check condition (gauge)
Level sensor	Check operation
Control switches and alarms	Actuate and inspect (operation)
Emergency lowering	Check operation (causes correct motion)
Air Filter	Check condition (gauge)
Safety prop	Check operation
Parking brakes	Check operation
Placards, decals and Operator's Manual	Visually inspect (installation, condition)
Optional items	Check operation

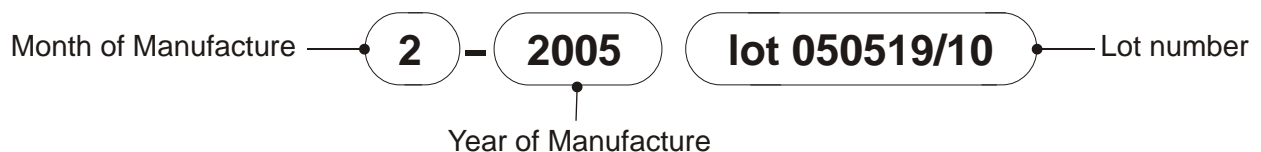
■ Hydraulic Hose Age

EN982 Clause 7.3.1 requires the manufacturing date of each hydraulic hose to be clearly visible on the hose.

Hoses used in production of this unit are manufactured by Hydraulink and have a code stamped on the lay line that offers the following information.

The key to decode the date is as follows:

Sample Hose Code **2-2005 lot 050519/10**



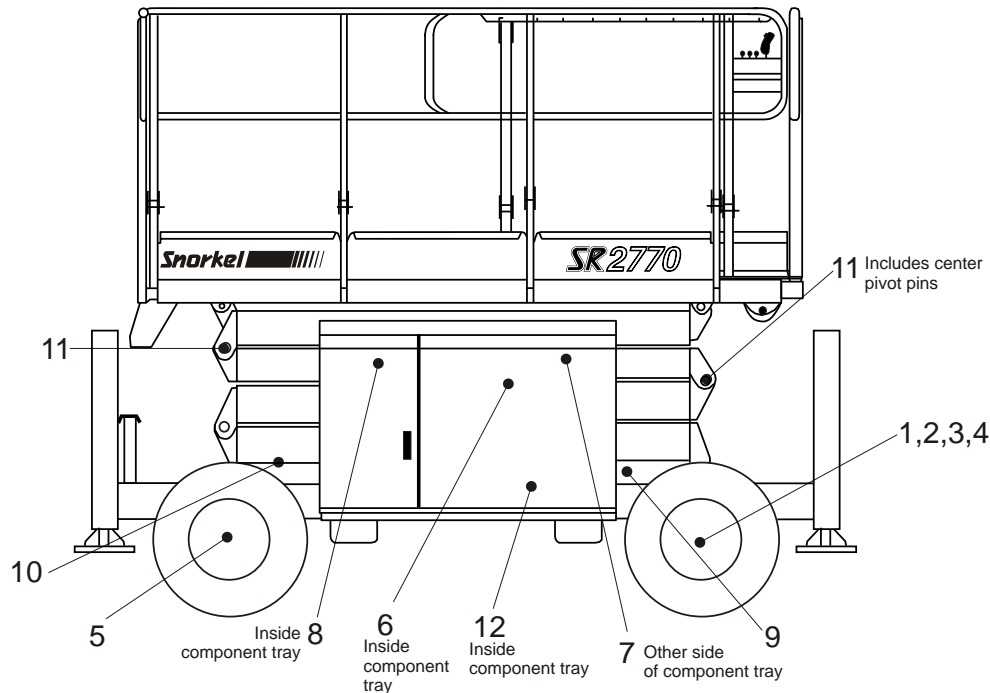
Maintenance Information

■ 90 Day or 150 Hour Maintenance (Trained Service Technician)

COMPONENTS	SERVICE REQUIRED	RECOMMENDED LUBRICANT OR FURTHER INSTRUCTIONS
Daily maintenance	Perform maintenance as per schedule	
Preventive inspection maintenance checklist	Perform inspection, complete form	Retain copy of checklist
Placards & decals inspection	Inspect using drawing and parts listing in section 1 (repair parts)	Replace any missing or unreadable decals/placards
Door hinges and latches	Lubricate	SAE 10W oil or spray lube
Tie rods	Check pin keeper and condition	DO NOT lubricate
Steer cylinder ends	Check pin keeper and condition	DO NOT lubricate
Gear hubs	Check fluid level, fill if low	Mobil Mobilube HD 80W-90
Batteries	Check specific gravity	1.260/1.275 at 80° F.
Platform lift capacity	Check if platform can lift maximum load	
Platform lift/lower speeds	Check smooth operation and speeds	
Hydraulic return filter	Check condition	Replace if dirty
Engine RPM	Check for proper RPM	Low = 1557rpm High = 3184rpm
Engine oil and oil filter	Replace per engine manufacturer's interval	See engine manufacturer's owners manual
Engine fuel filter	Check condition	Replace every 6 months or if dirty
Slide pads	Check condition	DO NOT lubricate
Scissor arm bearings	Check condition	DO NOT lubricate

■ Yearly or 500 Hour Maintenance (Trained Service Technician)

COMPONENTS	SERVICE REQUIRED	RECOMMENDED LUBRICANT OR FURTHER INSTRUCTIONS
90 day or 150 hour maintenance	Perform maintenance per schedule	
Hydraulic oil reservoir	Clean and replace fluid	Shell Tellus 32 or similar
Hydraulic return filter	Replace	After 1st. 50 hours, thereafter at recommended interval
Hydraulic pressures	Check pressures	
Platform controller	Check operation	
Base controls	Check operation	
Wheel bearings	Clean and repack	Conoco Super Sta #2 Above 32° Mobilgrease CM-P Below 32° Mobilgrease CM-L



The drawing locates the lubrication points of the SR2770.

■ Lubricants

Specific lubricants as recommended by Snorkel, should be used in maintaining your unit. If in doubt regarding the use of lubricants other than those listed, contact Snorkel.

□ Pressure gun application

Service all fittings as indicated in the Maintenance Schedule and lubrication drawing. Wipe away all excess lubricant from exposed surfaces. Over lubrication can collect dirt and foreign matter which acts as an abrasive. Lubrication of accessory equipment should be in accordance with the manufacturer's recommendations.

NOTE

Any time the work platform is elevated to perform maintenance work, properly position the safety bar as outlined on the safety prop decal.

▲ DANGER

DO NOT reach through scissors mechanism unless the safety prop is properly positioned.

INJURY or DEATH could occur if the platform is not supported by the safety prop and should suddenly drop onto personnel performing maintenance work under the raised platform.

□ Lubrication

Refer to the above lubrication drawing for location of the following item numbers.

□ King pins (Item 1)

King pin bearings are self lubricating. Check for signs of damage and excessive wear as outlined in the maintenance schedule.

DO NOT lubricate

□ Tie rods (Item 2)

Tie rod bearings are self lubricating. Check for damage and excessive wear as outlined in the maintenance schedule.

DO NOT lubricate

□ Steer cylinder end (Item 3)

Steer cylinder ends are self lubricating. Check for damage and excessive wear as outlined in the maintenance schedule.

DO NOT lubricate

□ Wheel bearings

Non drive wheels (Item 4)

Wheel bearings on non drive wheels, should be cleaned and repacked yearly, (or every 500 hours of operation), using specific lubricants as specified in the maintenance schedule.

Maintenance Information

Clean and repack wheel bearings following normal automotive procedures.

Wheel bearings

Drive wheels (Item 5)

Wheel bearings used on drive wheels are sealed bearings and do not require lubrication.

Engines (Item 6)

Other than daily Operator's maintenance outlined in the Daily Inspection and Maintenance schedule, all other engine maintenance information is found in the manufacturer's instruction manual.

Refer to the engine manufacturer's instruction manual or consult your local engine service representative if engine adjustments or repairs are needed.

▲CAUTION

The engine MUST be operated in accordance with manufacturer's instructions and serviced at recommended intervals.

Failure to do so could result in the loss of your engine warranty and repair of any failure resulting from improper maintenance could be at your own expense.

Hydraulic oil reservoir (Item 7)

The fluid level should be kept level with the indicator line on the side of the reservoir and should be checked with all cylinders fully retracted and the platform in the stowed position.

The interior of the reservoir should be wiped out and cleaned each time the hydraulic oil is changed. The reservoir filler/breather cap should be removed and the cap breather cleaned yearly with Kerosene, Fuel Oil or other solvent.

It is absolutely necessary that only new, clean hydraulic oil is added.

▲CAUTION

If it becomes necessary to add or use an oil other than the recommended fluid, it is important that it be compatible and equivalent to the factory fill. Local oil suppliers can generally furnish this information.

If questions still remain, contact Snorkel for further information.

Return filter (Item 8)

On SR scissorlift models, the hydraulic oil return filter is mounted in the right hand tray assembly close to the hydraulic oil reservoir.

The filter element is a throw-away type filter and should be changed after the initial break-in period (approximately 50 hours operation time).

The filter condition should be checked at the 90 day or 150 hour Preventive Inspection Maintenance interval or more frequently under extreme working conditions.

When changing the filter element, the oil inside of the filter element, should be examined for deposits of metal cuttings, which if present, could indicate excessive wear in some of the system components.

Door hinges and latches (Item 9)

Door hinges and latches may be lubricated as required with spray lubrication or SAE 10W oil.

After lubricating, remove any excess oil or over-spray so it will not collect dirt and debris.

Slide pads (Item 10)

Check slide pads for excessive wear and replace as required.

Slide pads **DO NOT** require lubrication.

Scissor arm bearings (Item 11)

Scissor arm bearings are self lubricating. Check bearings for signs of damage and excessive wear as outlined in the maintenance schedule.

DO NOT lubricate scissor arm bearings.

■ Batteries (Item 12)

The battery will have longer life if the water level is maintained and it is kept charged. The unit will have better starting characteristics with a fully charged battery.

In cold weather the battery should be maintained at full charge to keep from freezing. An extremely low or dead battery can freeze in cold weather. Make sure connections are clean and tight.

Check specific gravity of the battery per maintenance schedule.

Make sure charging equipment is operating properly.

▲DANGER

Lead-acid batteries contain sulfuric acid which will damage eyes or skin on contact.

When working around batteries, **ALWAYS** wear a face shield to avoid acid in eyes.

If acid contacts eyes, flush immediately with clear water and get medical attention.

Wear rubber gloves and protective clothing to keep acid off skin, if acid contacts skin, wash off immediately with clear water.

▲ DANGER

Lead-acid batteries produce flammable and explosive gases. **NEVER** allow smoking, flames or sparks around batteries.

Maintenance Information

■ Preventive inspection maintenance 90 day or 150 hour checklist

OK	OK - No Service Required
✓	Corrective Action Required
X	Corrected, (Record description of corrective action).

Serial Number _____

Inspection Procedures Codes
(1) Weld cracks, dents and/or rust
(2) Installation
(3) Leaks
(4) Operation
(5) Condition
(6) Tightness
(7) Residue buildup
(8) See placards and decals inspection chart

CHECK	OK	✓	X
BASEFRAME			
Structural (1)			
Steering cylinders (2,3,4,6)			
Steering cylinder fasteners and linkage (2,4)			
Tires and wheels (5)			
Articulating axles, if so equipped (2,4,5)			
Tray side covers (2,5,6)			
Torque drive wheel lug nuts 65 ft. lbs. (2,6)			
Torque steer wheel lug nuts 65 ft. lbs. (2,6)			
Right drive motor(s) (3,6)			
Left drive motor(s) (3,6)			
Drive cut-out			
Back-up horn (4)			
Guides, rollers and slides (2,4,5)			
Parking brake(s) (3,4)			
Free wheeling valve (3,4)			
Emergency lowering valve (3,4)			
Lowering alarm (4)			
Battery disconnect switch (4)			
Lubrication points			
Cords and wire assemblies (2,5,6)			
Hydraulic tubes and hoses (3,5)			
Decals and placards (2,8)			
OUTRIGGERS AND CONTROLS			
Right front outrigger (2,3,4)			
Left front outrigger (2,3,4)			
Right rear outrigger (2,3,4)			
Left rear outrigger (2,3,4)			
Platform elevated, outrigger controls DO NOT WORK (4)			
Outriggers lowered, platform elevated DRIVE WILL NOT WORK (4)			
SCISSOR ARM ASSEMBLY			
Structural (1)			
Scissor arm pivot pins (2,5)			
Lift cylinders and valves (2,3,4)			
Safety bar (2,4,5)			
Hydraulic tubes and hoses (3,5)			
Wires and electrical cables (2,5)			
Decals and placards (2,8)			

CHECK	OK	✓	X
BASE CONTROL STATION			
Key switch, main power ON - OFF (4)			
Selector switch base/platform controls - BASE CONTROLS SELECTED PLATFORM CONTROLS DO NOT WORK (4)			
Selector switch base/platform controls - PLATFORM CONTROLS SELECTED BASE CONTROLS DO NOT WORK (4)			
Toggle switch, platform UP - DOWN (4)			
Key start switch (4)			
Toggle switch, glow plug, timing light diesel units only (4)			
Fuel select switch GAS - LP FUEL (4)			
Emergency stop switch (4)			
Hour meter (4)			
Circuit breaker reset (4)			
Lowering alarm (4)			
Engine kill alarm (4)			
Low oil pressure alarm (4)			
High temperature alarm (4)			
Lift enable light (4)			
PLATFORM			
Structural (1)			
Guardrails properly installed and fastened (2,5)			
Platform entrance chain or gate (2,5)			
Wires and electrical cables (2,5)			
Decals and placards (2,8)			
Correct operators manual in document holder			
PLATFORM CONTROLS			
Drive speed - platform elevated SLOW DRIVE SPEED ONLY (4)			
Drive speed - platform lowered DRIVES FAST or SLOW (4)			
Joystick control - DRIVE/STEER and PROPORTIONAL LIFT (4)			
Toggle type selector switch - HIGH SPEED/HIGH TORQUE (4)			
Toggle type selector switch - LIFT/DRIVE (4)			
Low engine oil light (4)			
Engine start/kill switch (4)			
Lift enable light, if so equipped (4)			
Raised platform drive enable light, if so equipped (4)			
Emergency stop button (4)			
Joystick interlock switch (4)			
Selector switch - ALTERNATOR/MACHINE Units equipped with optional AC alternator (4)			

Maintenance Information

CHECK	OK	✓	X
ENGINE			
Air filter (5)			
Belts and hoses (5)			
Hydraulic pump (4)			
Engine oil (5)			
Engine START - STOP (4)			
Electric throttle (4)			
Engine coolant level (5)			
Fuel system (3)			
Fuel tank (3,5)			
ELECTRICAL			
Batteries (2,4)			
Battery terminals (5,6,7)			
Battery electrolyte level (5)			
Battery specific gravity reading (5)			
Wires and cables (2,5,6)			
Battery disconnect switch (4)			
Level sensor (2,4,5)			
Motion warning alarm (2,4)			
Two wheel parking brakes (4)			

CHECK	OK	✓	X
HYDRAULIC RESERVOIR & RETURN FILTER			
Translucent hydraulic oil reservoir (3,5)			
Filler/breather cap (6)			
Hydraulic fluid level (2,5)			
Return filter (2,5,6)			
Return filter element (5)			
OPTIONAL EQUIPMENT			
Roll out platform deck extension (2,4,5,8)			
AC 110/220 volt outlet on platform (2,4)			
AC generator (2,4,5)			
DC power operation (2,4)			
Diesel engine (2,4)			
Propane tank(s) - dual fuel units only (2,5)			
Flashing light (2,4)			
Retractable guardrails (2,4,5)			
Battery condition indicator (2,4)			

Corrective Action Required

Note: If correction action is required on any item, attach sheet indicating problem and action taken.




All items have been properly checked and tested and found to be operating satisfactory or necessary corrective action has been completed.

Inspected By: _____ Date _____

Maintenance Information

■ Torque chart

NOM SIZE X PITCH	TENSILE STRESS AREA A _s (mm ²)	PROPERTY CLASS 8.8			PROPERTY CLASS 10.9		
		CLAMP LOAD W (N)	TORQUE (N.m)		CLAMP LOAD W (N)	TORQUE (N.m)	
			DRY k=0.20	LUBED k=0.15		DRY k=0.20	LUBED k=0.15
M3 x 0.5	5.03	2 200	1.32	0.99	2 990	1.79	1.34
M3.5 x 0.6	6.78	2 960	2.07	1.55	4 030	2.82	2.11
M4 x 0.7	8.78	3 830	3.07	2.30	5 220	4.17	3.13
M5 x 0.8	14.2	6 200	6.20	4.65	8 430	8.43	6.33
M6 x 1	20.1	8 770	10.5	7.90	11 950	14.3	10.8
M8 x 1.25	36.6	15 975	25.6	19.2	21 750	34.8	26.1
M8 x 1	39.2	17 100	27.4	20.5	23 275	37.3	27.9
M10 x 1.5	58.0	25 325	51	38.0	34 450	69	52
M10 x 1.25	61.2	26 725	53	40.1	36 350	73	55
M12 x 1.75	84.3	36 800	88	66	50 075	120	90
M12 x 1.25	92.1	40 200	96	72	54 700	130	98
M14 x 2	115	50 200	140	105	68 300	190	145
M14 x 1.5	125	54 550	155	115	74 250	210	155
M16 x 2	157	68 525	220	165	93 250	300	225
M16 x 1.5	167	72 900	235	175	99 200	320	240
M20 x 2.5	245	106 950	430	320	145 550	580	435
M20 x 1.5	272	118 750	475	355	161 550	650	485
M24 x 3	353	154 100	740	555	209 700	1 010	755
M24 x 2	384	167 600	805	605	228 100	1 100	820
M27 x 3	459	200 350	1 080	810	272 650	1 470	1 100
M27 x 2	496	216 500	1 170	875	294 600	1 590	1 150
M30 x 3.5	561	244 900	1 470	1 100	333 250	2 000	1 500
M30 x 3	580	253 150	1 520	1 140	344 500	2 070	1 550
M30 x 2	621	271 050	1 630	1 220	368 850	2 210	1 660
M33 x 3.5	694	302 950	2 000	1 500	412 250	2 720	2 040
M33 x 2	761	332 200	2 200	1 640	452 050	2 980	2 240
M36 x 4	817	356 600	2 570	1 930	485 300	3 490	2 620
M36 x 3	865	377 600	2 720	2 040	513 800	3 700	2 780
M39 x 4	976	426 000	3 320	2 490	579 750	4 520	3 390
M39 x 3	1 028	448 700	3 500	2 630	610 650	4 760	3 570
M42 x 4.5	1 121	489 300	4 110	3 080	665 850	5 590	4 200
M42 x 3	1 206	526 400	4 420	3 320	716 350	6 020	4 510
M45 x 4.5	1 306	570 050	5 130	3 850	775 750	6 980	5 240
M45 x 3	1 398	610 250	5 490	4 120	830 400	7 470	5 610
M48 x 5	1 473	642 950	6 170	4 630	874 950	8 400	6 300
M48 x 3	1 604	700 150	6 720	5 040	952 800	9 150	6 860

Grade marking   

■ To order service or repair parts

When placing an order for service or repair parts, please have the following information available for your machine.

- ✓ Machine model number
- ✓ Machine serial number
- ✓ Snorkel part number
- ✓ Description of part
- ✓ Quantity of parts required
- ✓ Your purchase order number
- ✓ Address for order to "Ship To"
- ✓ Your desired shipment method

All correspondence relative to this unit, such as field reports, discrepancy reports, requests for service information, etc., should be directed to:

Snorkel
36 Bruce Road
P.O. Box 1041
Levin 5500
New Zealand

Phone: +64 06 368-9168

Fax: +64 06 368-9164

Attention: Parts Department

□ ANSI and OSHA compliance

All owners and users of the aerial platform must read, understand, and comply with all applicable regulations. Ultimate compliance to OSHA regulations is the responsibility of the user and their employer.

ANSI publications clearly identify the responsibilities of all personnel who may be involved with the aerial platform. A reprint of the "Manual of Responsibilities for Dealers, Owners, Users, Operators, Lessors and Lessees of ANSI/SIA A92.5-1992 Boom-Supported Elevating Work Platforms" is available from Snorkel dealers or from the factory upon request.

Copies are also available from:

Scaffold Industry Association
20335 Ventura Blvd. Suite 310
Woodland Hills, CA 91364-2471 USA

□ Manuals

Manuals are available from Snorkel to support any of the machines that we produce.

The specific manuals for SR2770 are as follows:

- ✓ Operator's Manual
Snorkel part number - 11669A
- ✓ Repair Parts Manual
Snorkel part number - 11669B

Record machine information here:

Model number*

Serial number*

Date of purchase

Purchased from

Snorkel dealer or distributor

* This information is found on the serial number placard attached to your machine.

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