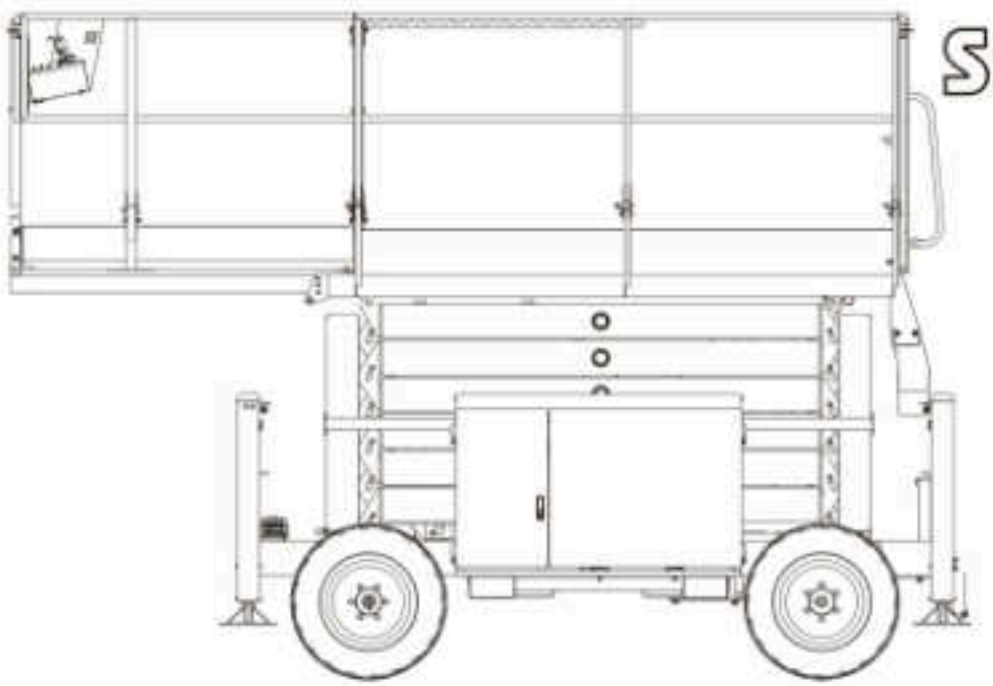
snorkel

S3970RT
S3370RT
S2770RT
S3970BE
S3370BE
S2770BE



Diesel
Bi-Energy 24V DC

REPAIR PARTS MANUAL

Serial Numbers:
S2770RT-07-000111,
S3370RT-07-000111,
S3970RT-07-000103 and after

Part Number 13865-2
June 2017 (Rev A)

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Item	Part No.	Name	Qty	Uom
1	3603-10	Plain Washer	4	EA
2	058493-020	Bolt, HexSetScrew DIN933 M10 x 20mm 8.8 ZincPlated	2	EA
3	HH1015F10CZ025	HHCS M10X1.5 F 10.9 C 25	27	EA
4	3610-10040	Metric Bolt	2	EA
5	NL101510CZ	NUT HEX NL M10X1.5 10.9 C	2	EA
6	3619-5	Circlip	24	EA
7	3624-19	Bush	40	EA
8	3624-2	Bush	72	EA
9	062642-020	BEARING	8	EA
10	3629-5062L	Washer, Scissor Pivot	24	EA
13	8626-4	PINKEEPER 10MM PLATED	30	EA
14	13574-16	Pin	4	EA
15	9292	Pin	4	EA
17	11492-3	Tab Washer	30	EA
18	11658-20	Wear Plug	8	EA
19	11804	Scissor Pivot Pin	12	EA
20	12566	Sliding Block Weld	2	EA
21	12589	Slider Bar Weld	1	EA
22	13667-1	Arm, Outer, Mid Right Hand Weld	4	EA
23	13667-32	Arm, Outer, Lower Right Weld	1	EA
24	13667-33	Arm, Inner, Lower Weld	1	EA
25	13667-15	Arm, Inner Weld	2	EA
26	13574-16	Pin	20	EA
27	13667-37	Arm, Inner, Dual Cylinder Weld	1	EA
28	13667-1	Arm, Outer, Mid Right Hand Weld	1	EA
29	13667-2	Arm, Outer, Mid Left Hand Weld	4	EA
30	13667-2	Arm, Outer, Mid Left Hand Weld	1	EA
31	13667-35	Arm, Outer, Top Odd Ends, Right Hand	1	EA

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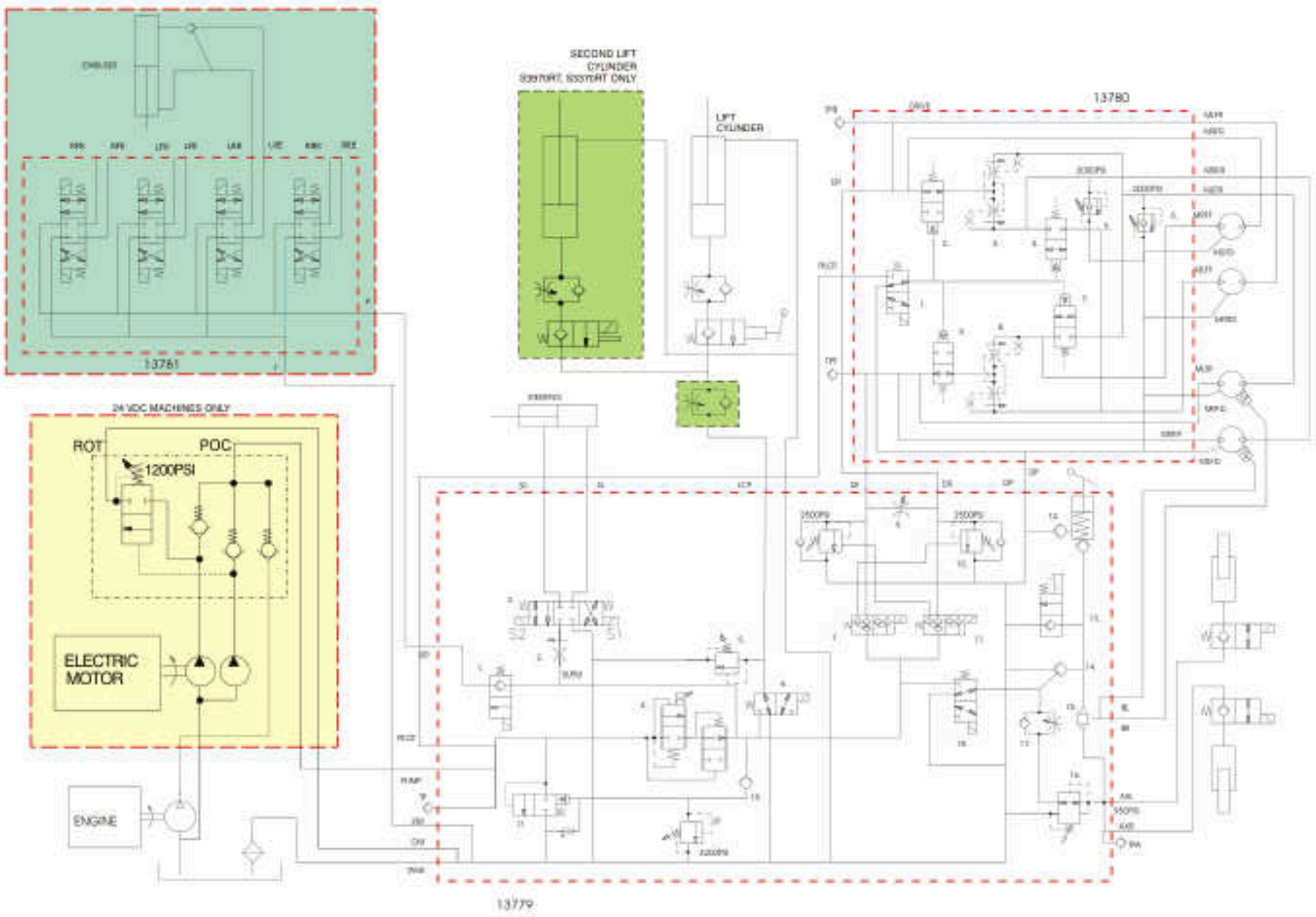
Item	Part No.	Name	Qty	Uom
0	13809-01	AS/NZS/CE Diesel Upper Control Box Assembly		EA
1	3605-05	Spring Washer	16	EA
2	3604-03010	Pan Head Screw	4	EA
3	3604-05016	Pan Head Screw	4	EA
4	3604-05025	Pan Head Screw	2	EA
5	3605-05	Spring Washer	4	EA
6	3610-05016	Metric Bolt	4	
7	3611-03	Metric Nyloc Nut	4	EA
8	NL050810CZ	NUT HEX NL M5X.8 10.9 C	6	EA
9	10118	Contact, NC - Telemec ZBE-102	2	EA
10	12536-3	LED - Green 12V M12	2	EA
11	12536-4	LED - Red, 12V M12	2	EA
12	12914-10	Collar	1	EA
13	12914-11	E-Stop - 40mm, Pull Release	1	EA
14	515612-000	MATRIX BOARD PG	2	EA
15	13808	Control Box Base	1	EA
16	13808-01	Control Box Lid - Upper	1	EA
17	13847-996	RECEPTACLE, FLGD HD10- 9 WAY	1	EA
18	13862	Foam Strip	1	EA
19	3028933-001	JOYSTICK CONTROLLER	1	EA
20	3020015	SW TGL SPST (ON) OFF SEALED	3	EA
21	3020016	TOGGLE SWITCH ON/OFF/ON	5	EA
22	3020080	SWITCH TOGGLE SPDT MOM/ON	2	EA
23	3020097	SW TGL DPDT (ON/ON)	1	EA
24	3040411	ALARM MINI SIREN 6-28 VDC MURPH	1	EA

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Item	Part No.	Name	Qty	Uom
28	15219-06	Vaporisor	1	EA
29	13086-11	Pusher Fan	1	EA
30	13086-13	Fan Spacer 14mm	1	EA
31	15219-07	Catalytic Muffler	1	EA
32	13086-15	Alternator Spacer	1	EA
33	13086-16	Alternator	1	EA
34	13086-9	Ignition Coil	1	EA
35	13164	Cable Tie Mount - M10	2	EA
36	13628	Pump - 10.8cc SAE-A 9 Spline	1	EA
37	13905	Saddle Clamp	1	EA
38	13973-1	Engine Mount Exhuast Side	1	EA
39	13973-2	Engine Mount	1	EA
40	13978-01	Bell Housing - KEA Adapter to SAE-A Pump	1	EA
41	13978-02	Flywheel Adapter - 6.5in	1	EA
42	13978-03	Spline Adapter - 9 Spline Pump	1	EA
43	13978-04	Inspection Cover	1	EA
44	13982	Throttle Mount	1	EA
45	13982-3	THROTTLE WEB SUPPORT	1	EA
46	13985-1	Tail Pipe	1	EA
47	13985-2	Tail Pipe Support	1	EA
48	13989-01	Elbow Pipe	1	EA
49	13990	Joiner - Air Filter Pipes	1	EA
50	13998-0404	BSP-NPT Adapter	1	EA
51	13999-01	LPG Hose Vaporisor to Carb	1	EA
52	13999-02	Water Hose Out	1	EA
53	13999-03	Water Hose In	1	EA
54	60017-010	1" x 3/8 UNC Bolt	2	EA
55	60021-008	1/4" NF Hex Nut	5	EA

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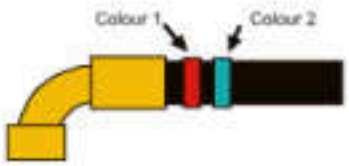
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Hose Part Numbers and Colour Codes

READING HOSE TAGS

Hose tags are read from the fitting side of the hose in towards the hose.

As such colour 1 is the closest to the fitting, colour 2 the next colour then 3, 4 etc...



13763 - Hose Kit, Base, SR V4 Rev A			
Snorkel Hose Part Number	Colour ID		Hose Use: Fitting A → Fitting B
	Colour 1	Colour 2	
13763-01	Blue	Yellow	Steer Right: Main Manifold SR → Steer Cyl Extend
13763-02	Blue	Green	Steer Left: Main Manifold SL → Steer Cyl Retract
13763-03	Red	—	Drive Forward: Main Manifold DF → 4WD Manifold DF
13763-04	Blue	—	Drive Reverse: Main Manifold DR → 4WD Manifold DR
13763-05	Red	White	Motor RR Drain: 4WD Manifold MRRD → Motor RR Case Drain
13763-06	Orange	White	Motor LR Drain: 4WD Manifold MLRD → Motor LR Case Drain
13763-07	Yellow	White	Motor LF Drain: 4WD Manifold MLFD → Motor LF Case Drain
13763-08	Green	White	Motor RF Drain: 4WD Manifold MRFD → Motor RF Case Drain
13763-09	Red	Red	Motor RR CW (Fwd): 4WD Manifold MRRF → Motor RR Port A
13763-10	Red	Blue	Motor RR CCW (Rev): 4WD Manifold MRRR → Motor RR Port B
13763-11	Orange	Red	Motor LR CW (Rev): 4WD Manifold MLRR → Motor LR Port A
13763-12	Orange	Blue	Motor LR CCW (Fwd): 4WD Manifold MLRF → Motor LR Port B
13763-13	Yellow	Red	Motor LF CW (Rev): 4WD Manifold MLFR → Motor LF Port A
13763-14	Yellow	Blue	Motor LF CCW (Fwd): 4WD Manifold MLFF → Motor LF Port B
13763-15	Green	Red	Motor RF CW (Fwd): 4WD Manifold MRFF → Motor RF Port A
13763-16	Green	Blue	Motor RF CCW (Rev): 4WD Manifold MRFR → Motor RF Port B
13763-17	Red	Orange	4WD Block Pilot: Main Manifold Pilot → 4WD Block Pilot
13763-18	Red	Black	4WD Manifold Return: Main Manifold DP → 4WD Manifold DP
13763-19	Red	—	Motor RR Brake: Main Manifold BR → RR Motor Brake
13763-20	Orange	—	Motor LR Brake: Main Manifold BL → LR Motor Brake
13763-21	Green	—	Lock Left Axle: Main Manifold AXL → LH Axle Cyl
13763-22	Black	—	Lock Right Axle: Main Manifold AXR → RH Axle Cyl

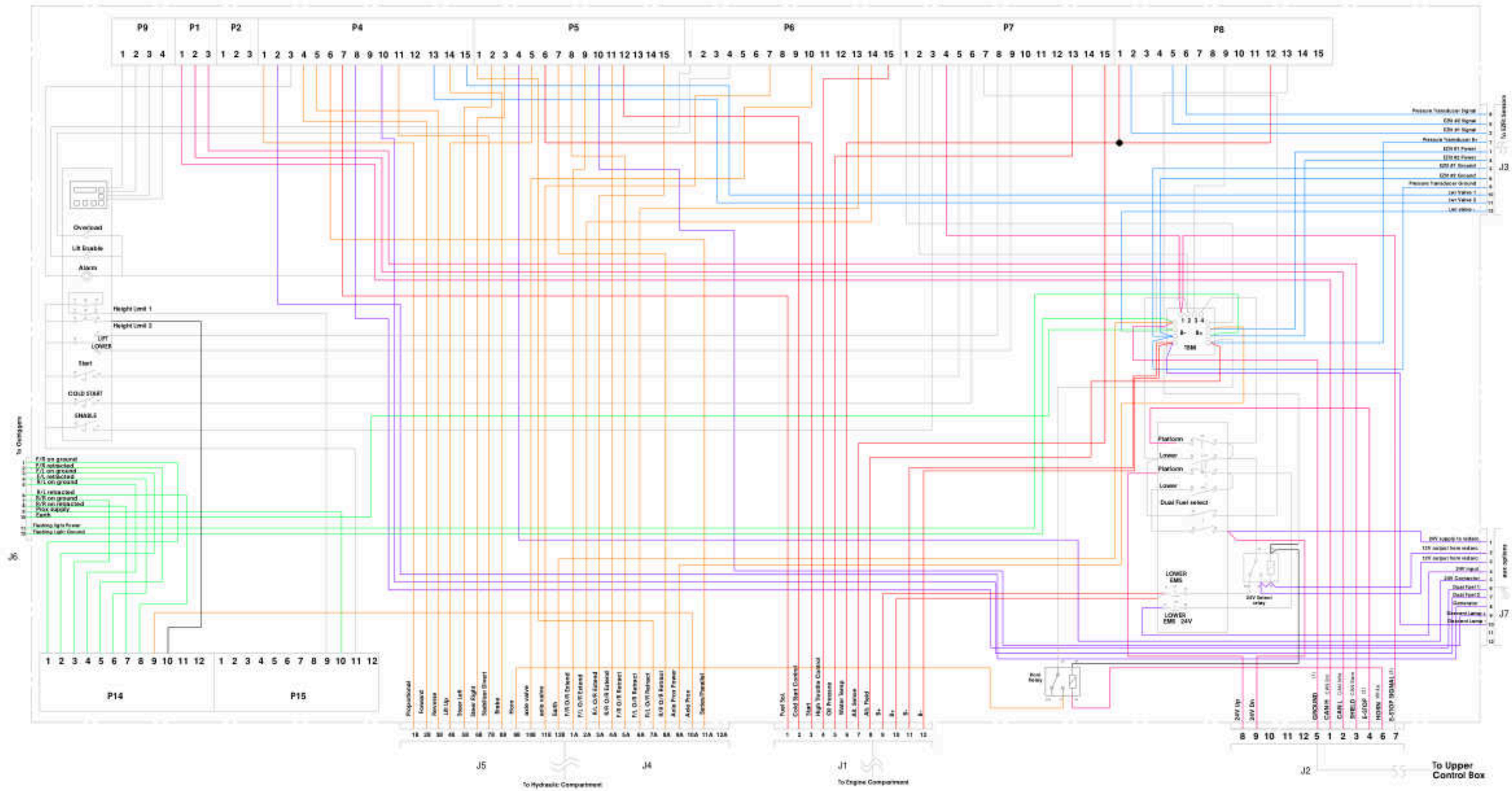
13764 - Hose Kit, Stabilisers, SR V4 Rev A			
Snorkel Hose Part Number	Colour ID		Hose Use: Fitting A → Fitting B
	Colour 1	Colour 2	
13764-01	Red	Yellow	Stab RR Extend: Stab Manifold RRE → Stab Cyl RR Extend
13764-02	Red	Green	Stab RR Retract: Stab Manifold RRR → Stab Cyl RR Retract
13764-03	Orange	Yellow	Stab LR Extend: Stab Manifold LRE → Stab Cyl LR Extend
13764-04	Orange	Green	Stab LR Retract: Stab Manifold LRR → Stab Cyl LR Retract
13764-05	Yellow	Yellow	Stab LF Extend: Stab Manifold LFE → Stab Cyl LF Extend
13764-06	Yellow	Green	Stab LF Retract: Stab Manifold LFR → Stab Cyl LF Retract
13764-07	Green	Yellow	Stab RF Extend: Stab Manifold RFE → Stab Cyl RF Extend
13764-08	Green	Green	Stab RF Retract: Stab Manifold RFR → Stab Cyl RF Retract
13764-09	—	—	Stab Manifold Pressure: Main Manifold STP → Stab Manifold P
13764-10	—	—	Stab Manifold Return: Main Manifold STR → Stab Manifold R

13765 - Hose Kit, Control Cabinet, SR V4 Rev A			
Snorkel Hose Part Number	Colour ID		Hose Use: Fitting A → Fitting B
	Colour 1	Colour 2	
13765-01	—	—	Main Manifold Return: Main Manifold Tank → Oil Filter
13765-02	—	—	Filter Return: Oil Filter → Hydraulic Oil Tank

13766 - Hose Kit, Engine, Kubota D902, SR V4 Rev A			
Snorkel Hose Part Number	Colour ID		Hose Use: Fitting A → Fitting B
	Colour 1	Colour 2	
13766-01	Orange	—	Pump Pressure: Main Manifold Pump → Pump Pressure Port
13766-02	—	—	Suction Line: Pump Suction Port → Hydraulic Oil Tank

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Lower Control Box



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