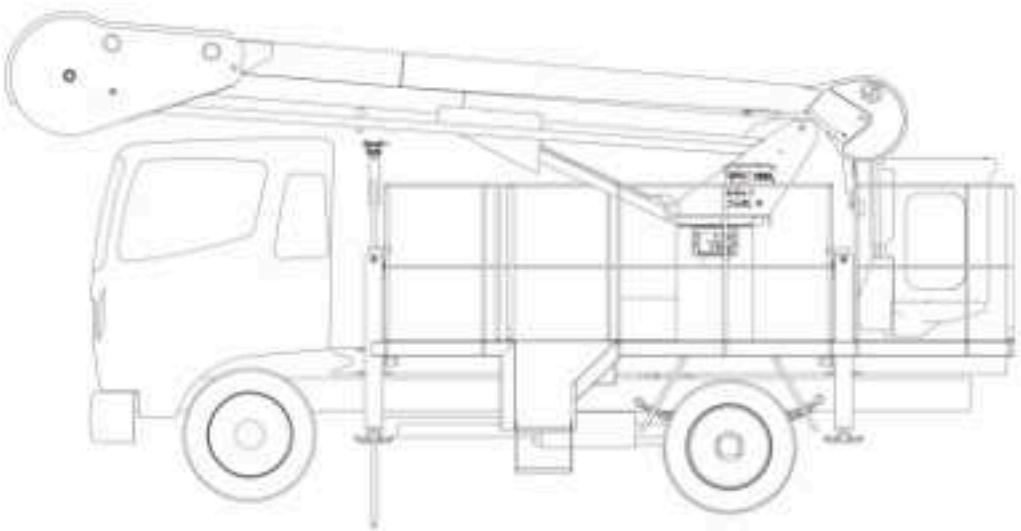
snorkel

EPV16



Gasoline
Battery Electric
Bi-Energy Options

REPAIR PARTS MANUAL

Part Number 13579-2
November 2012 (Rev A)
Version II

Serial Number NZ110412 and after

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Item	Part No.	Name	Qty	Uom
1	1034-120	M16 Galv Hardened & Temp Washer	12	EA
2	1067	Slew Ring	1	EA
3	2030-003	Grease Nipple	1	EA
4	3027	Flow control valve	1	EA
5	3603-06	Plain Washer	1	EA
6	510588-008	M8, plain washer	2	EA
7	SLWM06STCZ	WASHER, SPRINGWASHER DIN127B M6 ZINCPLATED	1	EA
8	HH0610F88CZ020	HHCS M6X1 F 8.8 C 20	1	EA
9	3613-12035	Socket Head Cap Screw	10	EA
10	056021-012	Washer, SpringWasher DIN127B M12 ZincPlated	10	EA
11	056021-016	WSHR LOCK M16 DIN 127	12	EA
12	7804-001	Restrictor 1.0 x 1/16" NPT	2	EA
13	8626-4	PINKEEPER 10MM PLATED	1	EA
14	10549	Selector valve	1	EA
15	11943	Slew Drive and Brake Assembly	1	EA
16	12381-25	Pinion Gear Guard	1	EA
17	12445	Micro Switch	1	EA
18	12483	Remote Grease Nipple Weld	1	EA
19	12483-2	Adapter	1	EA
20	12483-3	Connector	2	EA
21	12521	Control Box - Stabiliser MHP	1	EA
22	12679-60	Column Cover	1	EA
23	12875	Column Cover	1	EA
24	12877	Control box assembly, (machines with hydraulic controls)	1	EA
26	13485-01	Trionics - GP400C	1	EA
27	303017028	TBM 21 500 312 REPLACEMENT BOARD	1	EA
28	600020-028N	Bolt, UNF hex	12	EA

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Item	Part No.	Name	Qty	Uom
1	3027	Flow control valve	1	EA
2	FLWM0510CZ	WASHER FLAT M5 10.9 C	28	EA
3	510588-008	M8, plain washer	4	EA
4	3603-16	Plain Washer	2	EA
5	510593-012	Pan head screw, M5 x 12 mm	8	EA
6	510593-020	Bolt, PhiPanMachScrew DIN7985 M5 x 20mm 8.8 ZincPlated	2	EA
7	3605-05	Spring Washer	4	EA
8	3608-16C	Cone Lock Nut	2	EA
9	3610-05016	Metric Bolt	4	
10	3610-05020	Metric Bolt	2	EA
11	058492-030	Bolt, HexSetScrew DIN933 M8 x 30mm 8.8 ZincPlated	2	EA
12	NL050810CZ	NUT HEX NL M5X.8 10.9 C	16	EA
13	NL081210CZ	NUT HEX NL M8X1.25 10.9 C	2	EA
14	3617-16035	Metric Bolt	8	EA
15	3626-10	Flanged Permaglide Bush	4	EA
16	056021-016	WSHR LOCK M16 DIN 127	8	EA
17	9727	Cert Holder	1	EA
18	12386-2	License Plate Lamp LED	1	EA
19	13056-4	Trailer Light - Combination	2	EA
20	13484	Basket Weld	1	EA
21	13484-18	Recessed Light Guard	2	EA
22	13484-22	Drop Bar - 610 Long	3	EA
23	13525-05	Washer, M5	2	EA
24	058523-000	U Bracket	6	EA
25	60027-066N	Rivet, 1/8" x 5/32"	24	EA
26	60030-198	1/4" Fender Washer	2	EA
27	65004-008	Rubber Grommet	4	EA
28	562386	COMPARTMENT, LITERATURE 8.5X11	1	EA

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Item	Part No.	Name	Qty	Uom
1	511067-000	DECAL 3 X 40	2	EA
2	150448	Decal, lanyard attachment	1	EA
3	2829-1	Decal, LV Cover	6	EA
4	12814	Decal, Hydraulic Fluid	1	EA
5	12833-4	Decal, Serial Number Plate	1	EA
7	12829	Decal, Uninsulated	2	EA
8	300699	DECAL, OPERATORS CHECKLIST	1	EA
9	45198-6	Decal, Limit Switch Sign	3	EA
10	45198-7	Decal, Wind Speed Rating	2	EA
11	512224-000	DECAL, SNORKEL	2	EA
16	9963	Decal, Lower Control Valve Operation	1	EA
18	12545	Decal, Auto Stabiliser Operation	1	EA
20	1772-002-K	Decal, Fit Boom Cradle to Lock Pin	2	EA
21	12829-2	Decal, Condition	2	EA
22	11843	Decal, Manual Stabilisers	1	EA
23	323897	DECAL, DANGER MUST NOT OPERATE	1	EA
24	12423-200	Decal, Rated Load	1	EA
25	99228-1	Decal, Caution Safety Harness	1	EA
27	56242-6	Decal, Operators Manual Enclosed	1	EA
28	12829-3	Decal, Warning Stripe (Insulated/Uninsulated)	1	EA
29	12877-1	Decal, Lower Control Box	1	EA
30	12861-1	Decal, Upper Control Box, Non Rotate	1	EA
30	12861-2	Decal, Upper Control Box, Rotate	1	EA
31	13029	Decal, Emergency Lowering	1	EA
33	13205	Decal, 10.9m Height Restriction, Australia Only	1	EA

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■ Introduction

Units built for the Australian market may be fitted with a 10.9m height restriction kit.

This kit is fitted to allow the maximum height to the platform floor to be restricted to10.9m from the ground.

This is to allow the unit to be operated by unlicensed operators in accordance with Australian legislation.

⚠IMPORTANT

If this machine is fitted with a 10.9m kit you must ENSURE that you read and understand the information in this section.

■ Signage

If the machine is fitted with a 10.9m kit the decal below will be attached to the base/column adjacent to the height lockout switch.

WARNING

THIS MACHINE IS FITTED WITH A 10.9 METRE RESTRICTION KIT

SELECTION / OPERATION OF A BOOM LENGTH IN EXCESS OF 11M REQUIRES THE OPERATOR TO HOLD A WP CERTIFICATE OF COMPETENCY

Figure 1 - Decal

■ Operation

When the 10.9m function is selected, via the key switch mounted at the base, the unit operates normally until a micro switch at the knuckle is activated by a cam.

This then powers a solenoid valve that shuts off oil to the upper lift cylinders and prevents the upper boom raising any further.

The key switch ❶ allows the unit to operate normally so the platform floor height is 12.8m (15m working height) when the **DISABLED** position ❸ on the key switch is selected (see on Figure 2).

When the key switch is placed in the **ENABLED** position ❷ the unit is restricted to a platform floor height of 10.9m (see Figure 2). The key can only be removed in the disabled position thus effectively 'locking' the machine into the restricted mode.

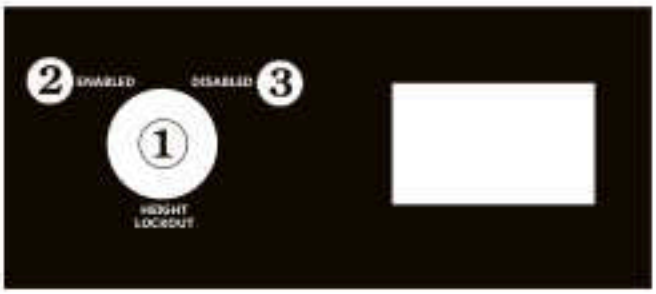


Figure 2 - Key Switch

⚠IMPORTANT

In order to operate this machine in the unrestricted mode (DISABLED) the operator is required to hold a WP Certificate of Competency.

⚠WARNING

The use of a machine fitted with a 10.9m height restriction kit, in the unrestricted (DISABLED) mode by an uncertified operator is a breach of Australian law.

⚠IMPORTANT

If a machine is fitted with a 10.9m height restriction kit, and the machine is to be made available for hire,
IT IS THE RESPONSIBILITY OF THE HIRE COMPANY OR OWNER
to establish that the person hiring the machine, or the person who will be operating the machine, has a WP class Certificate of Competency.

If they do not have such a qualification the machine must be restricted to 10.9m operation and the key must be removed thus locking the unit in that mode prior to the hiree removing the machine.

■ Operation In Unrestricted Mode

If the machine is being operated in the unrestricted (DISABLED) mode, by a suitably qualified operator, the key MUST be switched to restricted (ENABLED) mode and the key removed from the switch any time that the qualified operator leaves the machine.

As previously stated this effectively 'locks' the machine into the 10.9m mode thus preventing any unqualified person from operating the machine in the unrestricted mode.

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ELECTRICAL

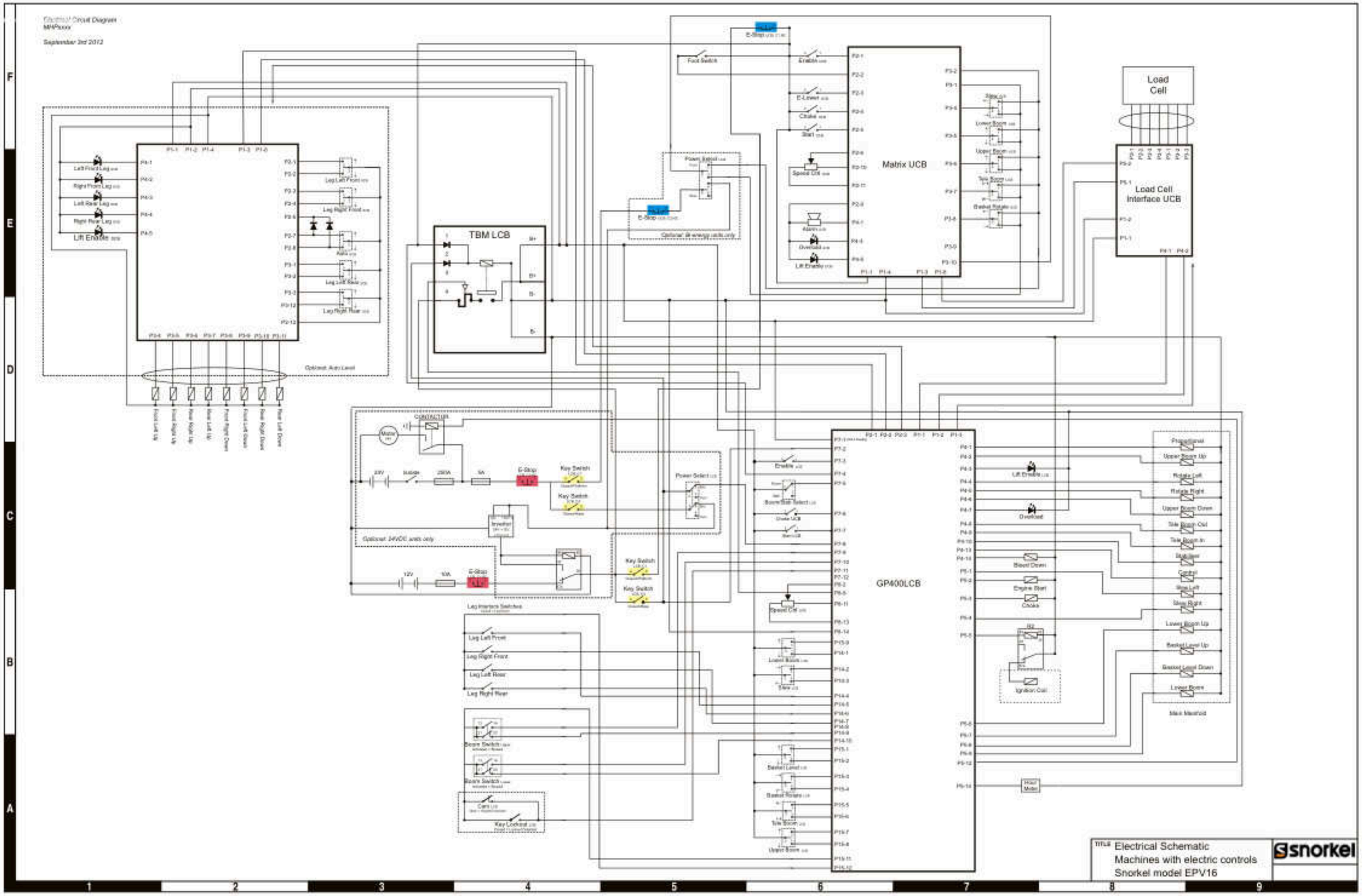
Upper control box assembly - hydraulic controls



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Electrical Circuit Diagram
MHPxxxx

September 3rd 2012



TITLE Electrical Schematic
Machines with electric controls
Snorkel model EPV16

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