snorkel

TL37J



CE

RA/PG

PARTS & SERVICES MANUAL

Part Number 511116-201
December 2017

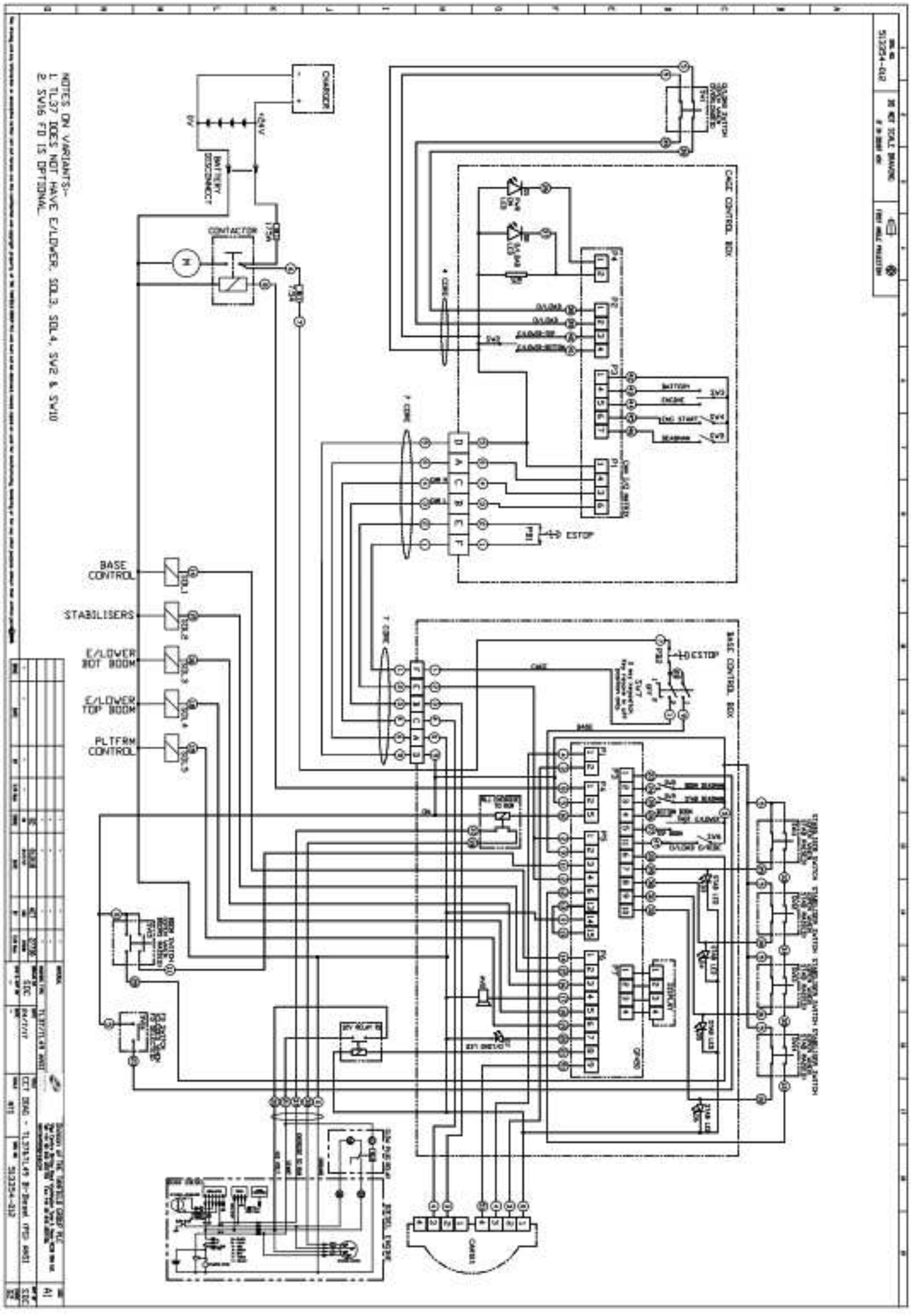
Serial Number TL37-01-007625 and after

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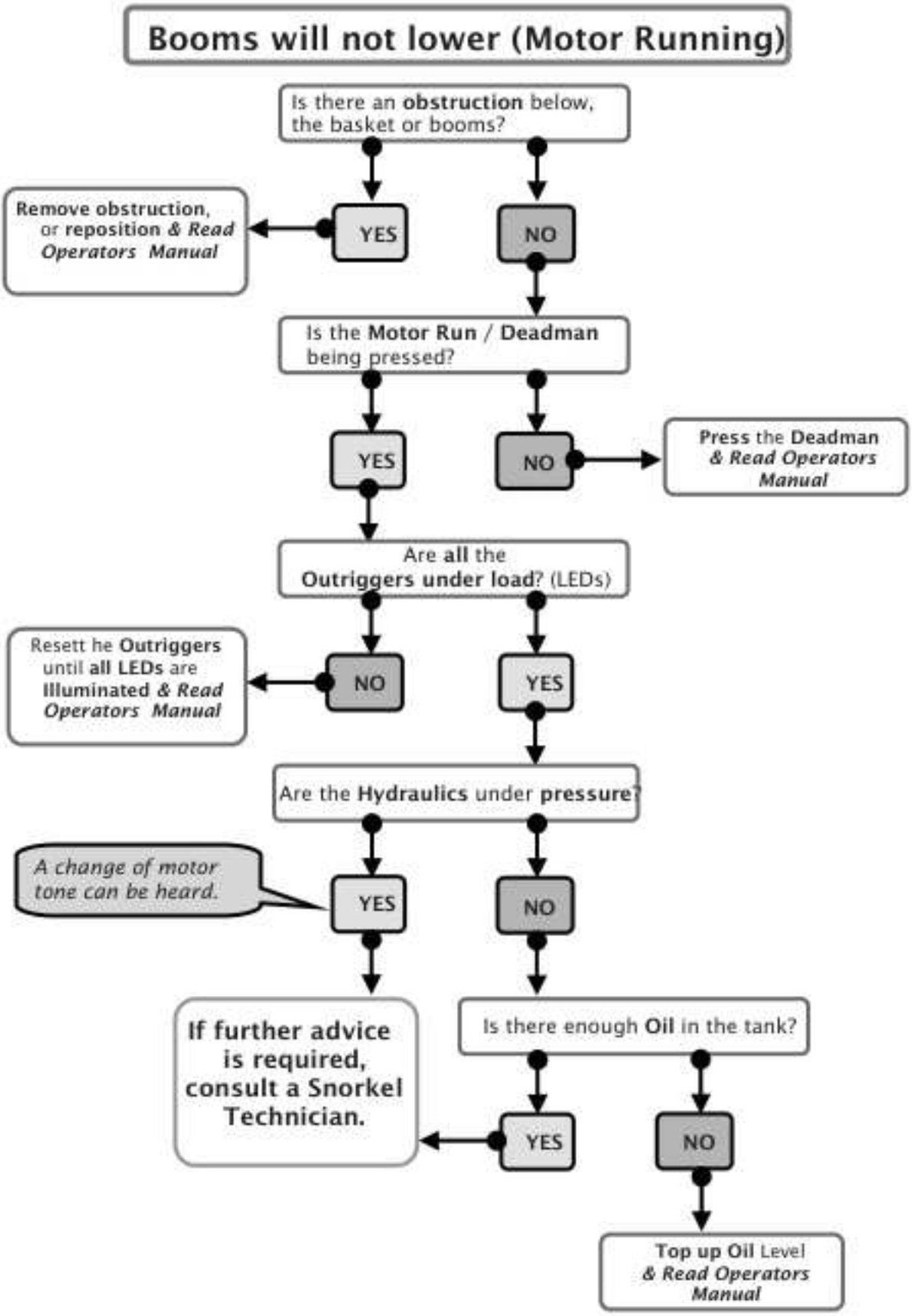
Item	Part No.	Name	Qty	Uom
	148067-000	DECAL INSTALLATION DUAL CAPACITY ANSI CSA FRENCH		
1	3069521	INLET FLANGE	2	EA
2	511116-000-FR	OPERATORS MANUAL, TL37 NEW LOGO 2010 FR	1	EA
3	0070901FR	PLAC CAUTN SERIAL NUMBER	1	EA
4	510372-000	DECAL, HYDRAULIC TANK (FRENCH)	1	EA
5	0071927FR	DECAL, HYDRAULIC OIL	1	EA
6	0081384	DECAL, TILT INDICATOR	1	EA
7	512224-000	DECAL, SNORKEL	2	EA
8	1502528	DECAL, POWER TO PLATFORM	1	EA
9	068635-001	DECAL, HARNESS HARD POINT	1	EA
10	0162311	DECAL, CE LOGO 3.25 X 2.00	1	EA
11	508515-000	NO 1 50MM BLACK TEXT WHITE BACK	1	EA
12	508518-000	NO 4 50MM BLACK TEXT WHITE BACK	1	EA
13	508516-000	NO 2 50MM BLACK TEXT WHITE BACK	1	EA
14	508517-000	NO 3 50MM BLACK TEXT WHITE BACK	1	EA
15	508510-001	DECAL TIRE PRESSURE 60-65 PSI	2	EA
16	010076-901	DECAL, DOCUMENT BOX	1	EA
17	510280-100	EMERGENCY DOWN DECAL	2	EA
18	515335-100	QR DECAL	1	EA
19	508511-000	CONTROL LEGEND STICKER	1	EA
20	515843-000	DECAL, OIL GRADING	1	EA
21	1502529	DECAL, BATTERY CHARGER PLUG	1	EA
22	508512-000	CONTROL LEGEND STICKER	1	EA
23	508505-000	SWL 215 KG	2	EA

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BI-FUEL DIESEL ANSI, CANTILT - CIRCUIT SCHEMATIC (From SN:TL37J-01-****00291)



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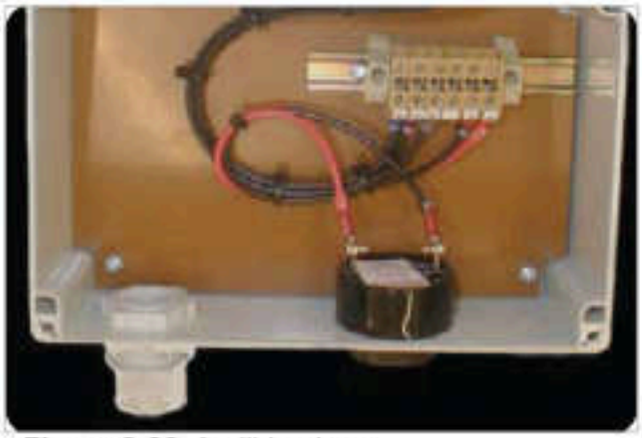


Figure 3-26: Audible alarm.



Figure 3-27: Outrigger limit switch.

EMERGENCY LOWERING SAFETY & MAINTENANCE

- When using the emergency lowering valve on the top or bottom ram, it is important to fully extend the cylinder to fill the ram up with oil. There is a delay if it is the first time powering the cylinder down because it has to fill up with oil. If the oil tank is overflowing, clean up the oil spillage immediately. The spillage is due to the tank being overfilled.
- The emergency slew handle and the slew valve handle must be operated at the same time to allow oil to circulate. When the hydraulic motor is turned, it becomes a pump leading to the oil being moved elsewhere.



Figure 3-28: Emergency slew.



Figure 3-29: Emergency lowering valve.

WHEELS

Check for damage to the tyre/tyres. Replace if tread pattern is worn below 3 mm. On machines with sliding axle, increased wear will be noticed on the inside part of the tyre/tyres compared to the outside part. It is important that correct tyre pressure is maintained at all times. The correct pressure is 4 to 4.5 Bar (60 to 65 PSI) and not what may be indicated on the tyre. Refer to the tyre pressure sticker fitted on the top of the mudguard. Tyre size is 185R14C.

Note
For full service and maintenance information on the running gear, contact Snorkel to request a copy of the running gear OEM service handbook.

BRAKES

Check Bowden cable for damage - Replace if inner steel core is visible. Sticking brakes can be down to seized cables. The inner steel wire must run freely inside the cable.

Adjust the brakes with the wheels removed. Remove the plastic bung in the back of the brake plate.

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Torque Specifications for Metric Fasteners, U.S. Customary Units

	8.8 Grade 8.8			10.9 Grade 10.9			12.9 Grade 12.9		
Nominal Thread Size	Clamp Load	Tightening Torque K = .15	Tightening Torque K = .20	Clamp Load	Tightening Torque K = .15	Tightening Torque K = .20	Clamp Load	Tightening Torque K = .15	Tightening Torque K = .20
mm	lbs.	in-lbs.	in-lbs.	lbs.	in-lbs.	in-lbs.	lbs.	in-lbs.	in-lbs.
3	-	-	-	-	-	-	823	14.6	19.5
3.5	-	-	-	-	-	-	1,109	22.9	30.5
4	-	-	-	-	-	-	1,436	33.9	45.2
5	1,389	41.0	19.5	1,987	58.7	19.5	2,322	68.6	91.2
6	1,966	69.7	28.3	2,813	100.0	28.3	3,287	116.8	155.8
7	2,826	116.8	37.2	4,044	167.3	37.2	4,727	195.6	260.2
		ft-lbs.	ft-lbs.		ft-lbs.	ft-lbs.		ft-lbs.	ft-lbs.
8	3,579	14.1	18.8	5,122	20.1	26.9	5,986	23.6	31.4
10	11,742	27.9	37.2	8,117	39.9	53.3	9,486	46.7	62.3
12	8,244	48.7	64.9	11,797	69.7	92.2	13,787	81.1	108.4
14	11,246	77.4	103.3	16,093	110.6	147.5	18,808	129.1	172.6
16	15,883	125.4	166.7	21,971	173.3	230.9	25,677	202.1	269.2
18	19,424	171.9	229.4	26,869	238.2	317.2	31,401	278.1	371.0
20	2,304	243.4	325.3	34,286	337.8	449.9	40,070	394.6	525.9
22	30,653	331.9	442.5	42,403	458.8	612.2	49,556	536.2	715.4
24	35,711	420.4	562.0	49,400	583.4	778.1	57,733	682.2	909.4
27	46,435	617.3	84.8	64,235	853.4	1138.1	75,069	997.2	1329.8
30	56,753	837.9	1117.4	78,509	1159.4	1545.2	91,751	1354.9	1807.0
33	70,208	1140.3	1520.1	97,121	1576.9	2102.8	113,503	1843.9	2457.5
36	82,651	1464.1	1952.3	114,334	2025.3	2700.9	133,620	2367.6	3156.0

Torque Specifications for Metric Fasteners, SI Units

	8.8 Grade 8.8			10.9 Grade 10.9			12.9 Grade 12.9		
Nominal Thread Size	Clamp Load	Tightening Torque K = .15	Tightening Torque K = .20	Clamp Load	Tightening Torque K = .15	Tightening Torque K = .20	Clamp Load	Tightening Torque K = .15	Tightening Torque K = .20
mm	N	N-m	N-m	N	N-m	N-m	N	N-m	N-m
3	-	-	-	-	-	-	3,660	1.65	2.2
3.5	-	-	-	-	-	-	4,932	2.59	3.45
4	-	-	-	-	-	-	6,387	3.83	5.11
5	6,177	4.63	2.2	8,840	6.63	2.2	10,330	7.75	10.3
6	8,743	7.87	3.2	12,512	11.3	3.2	14,623	13.2	17.6
7	12,570	13.2	4.2	17,990	18.9	4.2	21,025	22.1	29.4
8	15,921	19.1	25.5	22,784	27.3	36.5	26,626	32	42.6
10	25,230	37.8	50.5	36,105	54.1	72.2	42,195	63.3	84.4
12	36,670	66	88	52,475	94.5	125	61,328	110	147
14	50,025	105	140	71,587	150	200	83,663	175	234
16	70,650	170	226	97,732	235	313	114,218	274	365
18	86,400	233	311	119,520	323	430	139,680	377	503
20	10,250	330	441	152,513	458	610	178,238	535	713
22	136,350	450	600	188,618	622	830	220,433	727	970
24	158,850	570	762	219,743	791	1055	256,808	925	1233
27	206,550	837	115	285,728	1157	1543	333,923	1352	1803
30	252,450	1136	1515	349,223	1572	2095	408,128	1837	2450
33	312,300	1546	2061	432,015	2138	2851	504,885	2500	3332
36	367,650	1985	2647	508,582	2746	3662	594,368	3210	4279

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