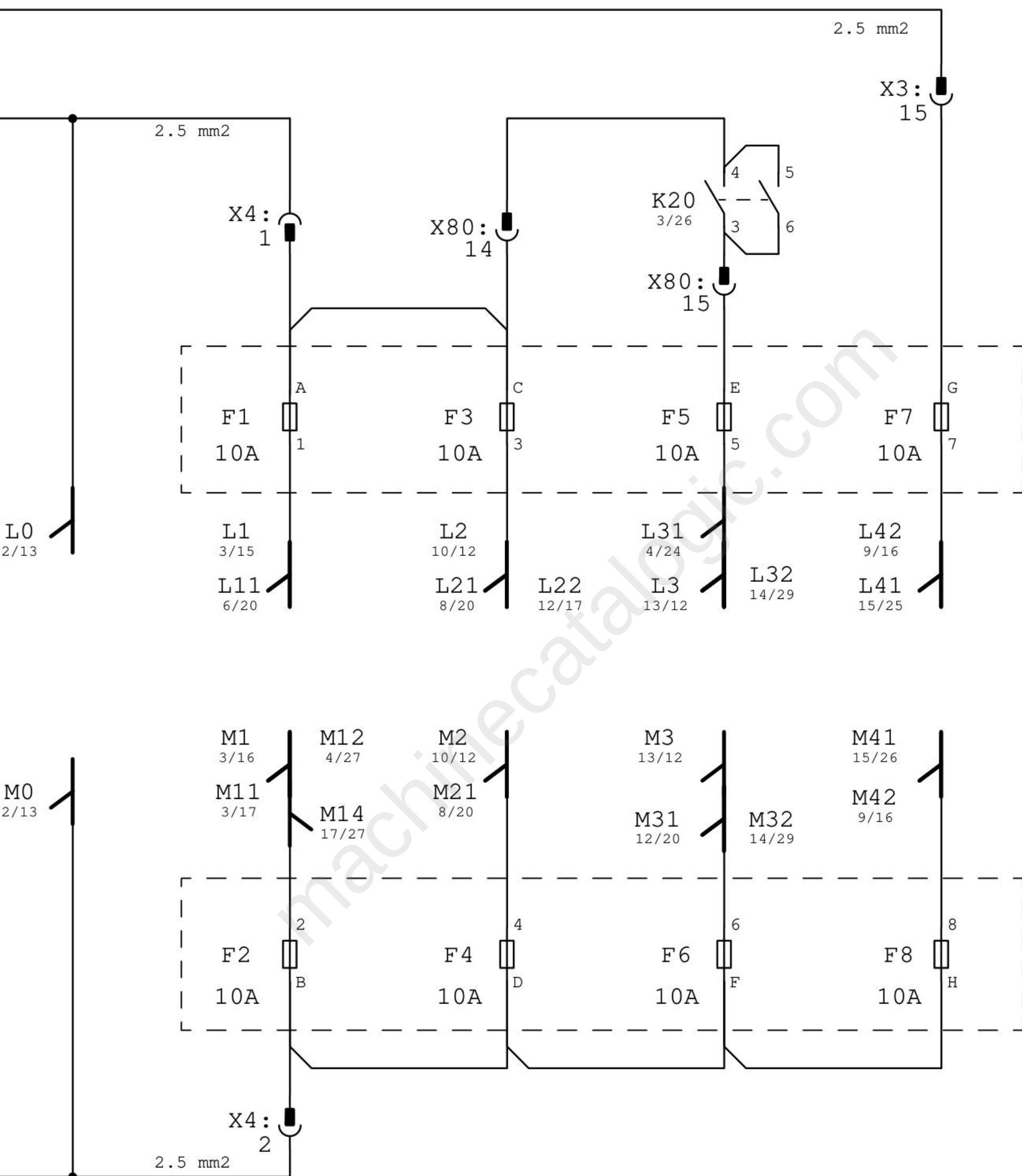




TRACTION MOTOR/ PUMP MOTOR	TRACTION CIRCUIT	PUMP CIRCUIT	AUX.DEVICES 1 WORKING LIGHTS	AUX.DEVICES 2
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- 17) **PUMP IMAX (p)** = defines the maximum current of the pump controller. All the adjustment of the pump are defined in percentage of this value. The adjustment range is from 50% (level 0) to 100% (level 9).
- 18) **SLOW LIFT SPEED (p)** = pump speed reduction set by the potentiometer, the speed is put on scale for the programmed coefficient. The function is activated only when the option SLOW LIFT OPTION is selected ON.
- 19) **HYD SPEED COARSE (p)** = coarse power steering speed (from 0% to 100% Vbatt on the motor). The parameter is activated if the option PUMP MODE is programmed STANDARD PUMP.
- 20) **HYD SPEED FINE (p)** = fine power steering speed (it is added a value from 0% to 10% Vbatt to the coarse speed). The parameter is activated if the option PUMP MODE is programmed STANDARD PUMP.
- 21) **HYDRO COMPENS (p)** = compensation for power steering. The parameter is activated if the option PUMP MODE is programmed STANDARD PUMP.
- 22) **4TH SPEED COARSE (p)** = n° 4 pump speed coarse regulation. The parameter is activated if the option CUTBACK INPUT #1 is programmed OFF.
- 23) **4TH SPEED FINE (p)** = n° 4 pump speed fine regulation. The parameter is activated if the option CUTBACK INPUT #1 is programmed OFF.
- 24) **4TH SPEED COMP. (p)** = n° 4 pump speed compensation. The parameter is activated if the option CUTBACK INPUT #1 is programmed OFF.
- 25) **3RD SPEED COARSE (p)** = n° 3 pump speed coarse regulation. The parameter is activated if the option CUTBACK INPUT #2 is programmed OFF.
- 26) **3RD SPEED FINE (p)** = n° 3 pump speed fine regulation. The parameter is activated if the option CUTBACK INPUT #2 is programmed OFF.
- 27) **3RD SPEED COMP. (p)** = n° 3 pump speed compensation. The parameter is activated if the option CUTBACK INPUT #2 is programmed OFF.
- 28) **2ND SPEED COARSE (p)** = n° 2 pump speed coarse regulation.
- 29) **2ND SPEED FINE (p)** = n° 2 pump speed fine regulation.
- 30) **2ND SPEED COMP. (p)** = n° 2 pump speed compensation.
- 31) **1ST SPEED COARSE (p)** = n° 1 pump speed coarse regulation.
- 32) **1ST SPEED FINE (p)** = n° 1 pump speed fine regulation.
- 33) **1ST SPEED COMP. (p)** = n° 1 pump speed compensation.

2.12 OPERATION ENVIRONMENT

Temperature:

Operation		-35°C - +55°C
Storage		-40°C - +70°C

Humidity		100% condensing according to IEC 68-2-30, Db
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2.13 COOLING

External cooling	Contact cooling to metal plate or frame
Isolation	500VAC according to prEN 1175-1

2.14 EMC

Immunity: According to prEN50081-2

Emmission: According to prEN50082-2

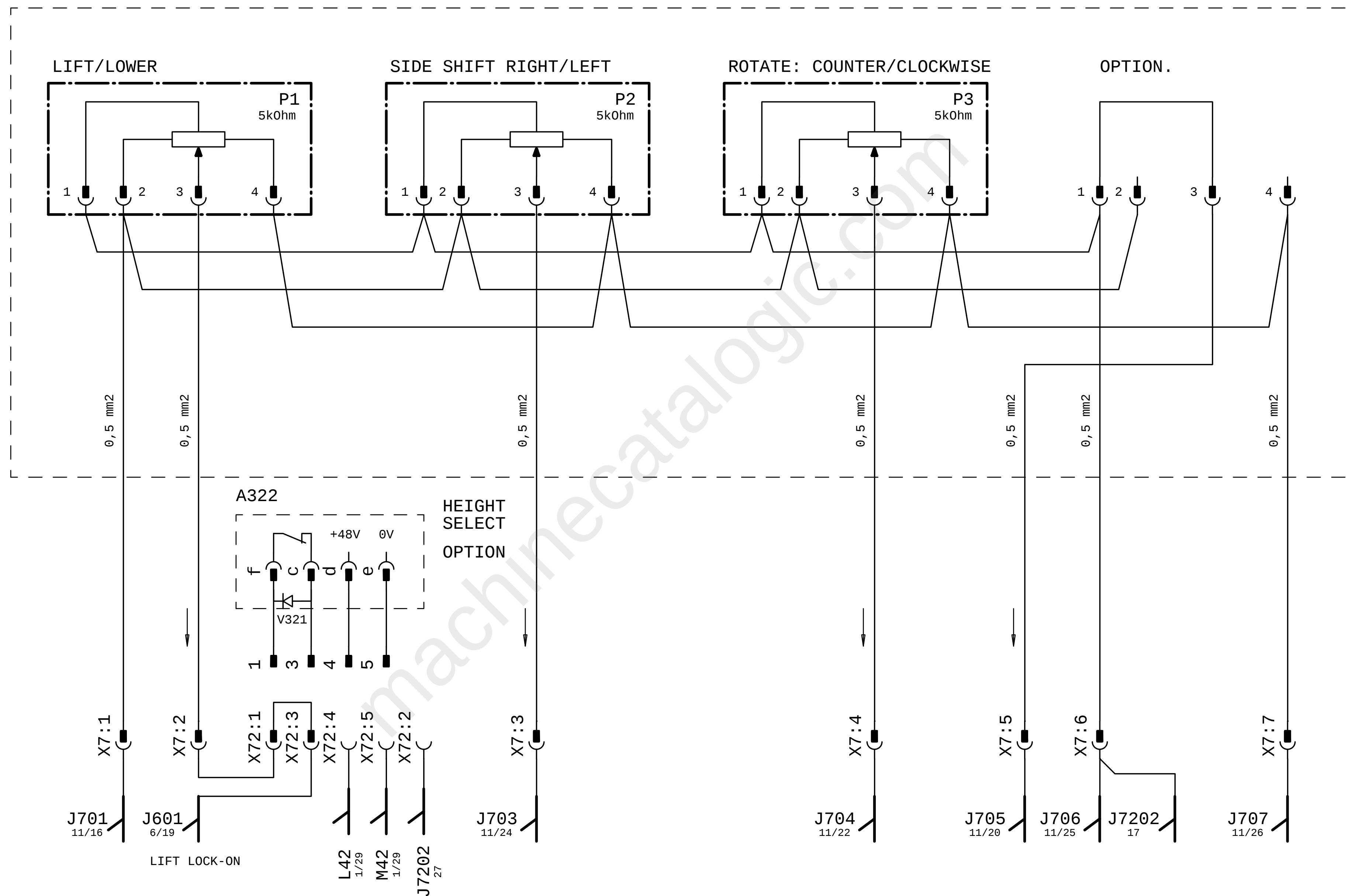
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Controller: Zapi C1 Combi 48V 350A+350A
 Program version: C1S RO1.13
 Zapi's serial number from: 9190 1067

Rev. 1
 Date 7.12.2001

	TRUCK TYPES:											NOTE	
	NR16C/NR16/NR20H/ NR20/NR25/NR25H	NR14 HYDR.BRAKE	NR14 NO BRAKE		NT12				SLOW SPEED				
MAIN MENU/													
PARAMETER CHANGE:													
ACCELERATION	8	8	8		8								
CUTBACK SPEED 1	0	0	0		0								
CUTBACK SPEED 2	0	0	0		0				1				
BRAKE CUTBACK	0	0	0		0								
TRACTION IMAX	9	9	9		9							do not change	
INVERS. BRAKING	4	4	7		6								
RELEASE BRAKING	5	4	4		6								
PEDAL BRAKING	4	4	9		9								
HYDRO TIME	0	0	0		0								
WEAK DROPOUT	5	5	5		5								
CREEP SPEED	1	0	0		1								
PLUG CURRENT	5	5	5		5								
BRAKING MODUL	4	4	4		4								
COMPENSATION	5	5	5		5							not used	
PUMP ACCELER. DELAY	3	3	3		3								
PUMP DECELER. DELAY	3	3	3		3								
PUMP IMAX	9	9	9		9							do not change	
SLOW LIFT SPEED	9	9	9		5								
HYD. SPEED COARSE	0	0	0		0								
HYD. SPEED FINE	0	0	0		0								
HYDRO COMPENS.	0	0	0		0								
4TH SPEED COARSE	0	0	0		0								
4TH SPEED FINE	0	0	0		0								
4TH SPEED COMP.	0	0	0		0								
3RD SPEED COARSE	0	0	0		0								
3RD SPEED FINE	0	0	0		0								
3RD SPEED COMP.	0	0	0		0								
2ND SPEED COARSE	0	0	0		0								
2ND SPEED FINE	0	0	0		0								
2ND SPEED COMP.	0	0	0		0								
1ST SPEED COARSE	0	0	0		0								
1ST SPEED FINE	0	0	0		0								
1ST SPEED COMP.	0	0	0		0								
CONFIG MENU/													
SET OPTIONS:													
HOUR COUNTER	RUN	RUN	RUN		RUN							do not change	
BATTERY CHECK	ON	ON	ON		ON							do not change	
RELEASE BRAKING	ON	ON	ON		ON							do not change	
ANTI ROLLBACK	ON	ON	ON		ON							do not change	
MAIN CONTACTOR	PRE	PRE	PRE		PRE							do not change	
CUTBACK INPUT #1	OFF	OFF	OFF		ON							do not change	
SLOW LIFT INPUT	ON	ON	ON		OFF							do not change	
CUTBACK INPUT #2	OFF	OFF	OFF		OFF				ON			do not change	
HYDRO INPUT	OFF	OFF	OFF		OFF							do not change	
PUMP MODE	STA	STA	STA		STA							do not change	
ADJUSTMENTS:													
SET LIFT MIN./ MAX.	0/5V	0/5V	0/5V		0/5V							volts	
BATTERY VOLTAGE	Ubat	Ubat	Ubat		Ubat							do not change	

B+24V



CIRCUIT DIAGRAM TS710000E

NT12 IND. STEERING
LIFT CIRCUITS 1

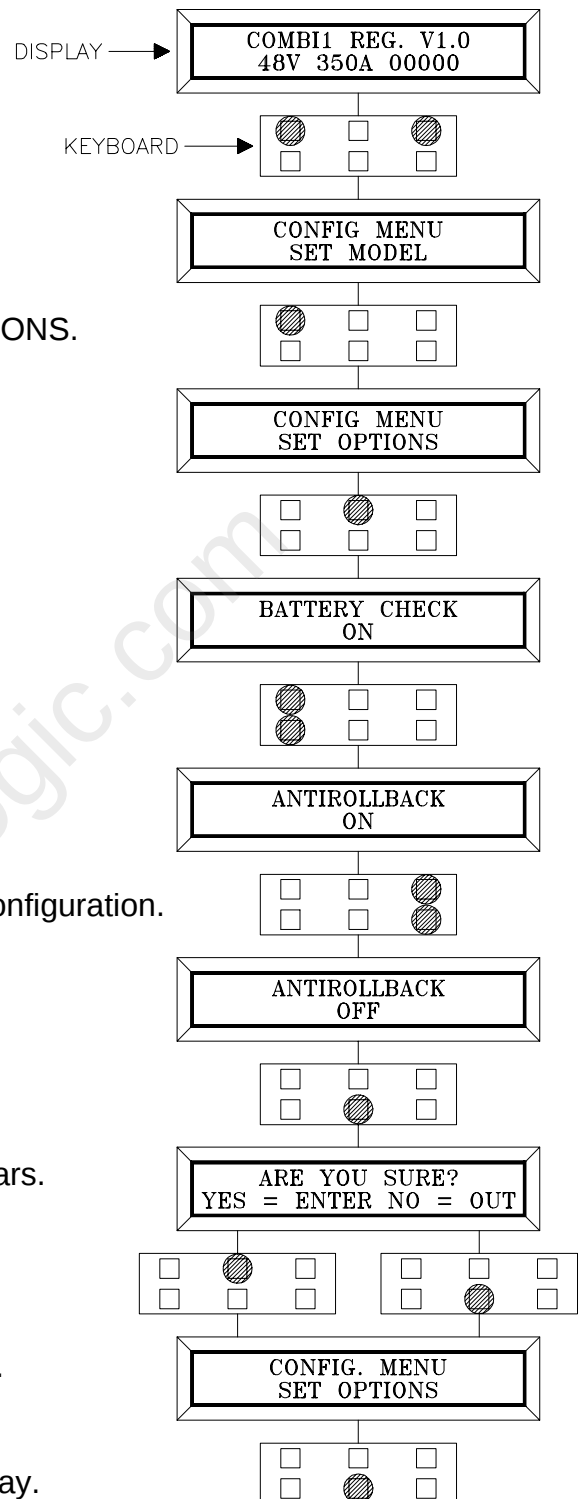
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REV

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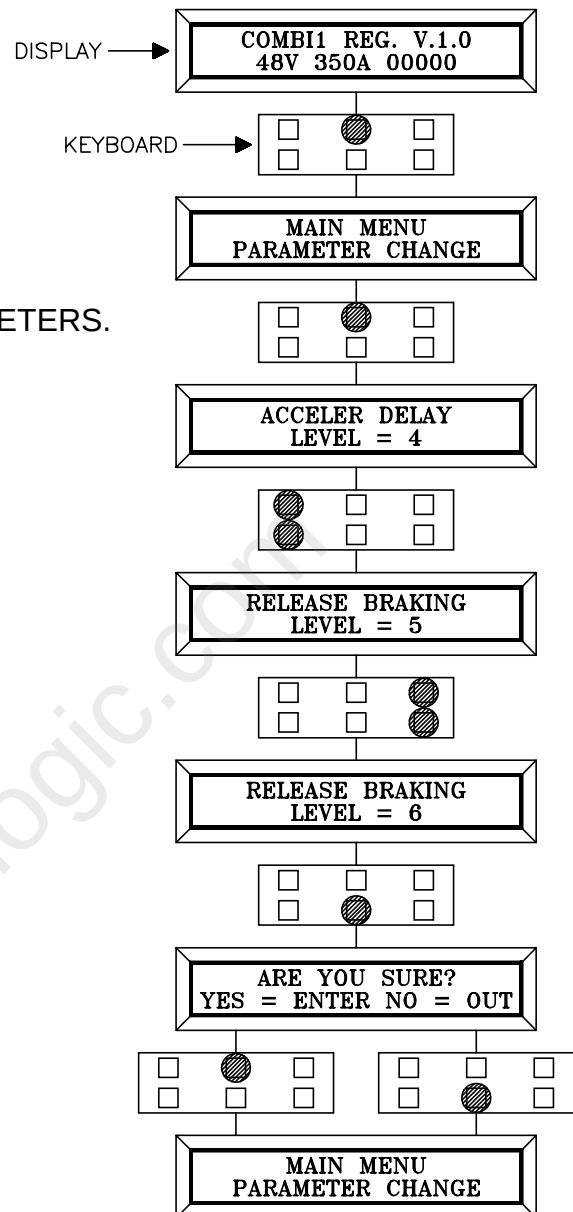
Programming "options", using the console:

- 1) Opening Display
- 2) Press ROLL UP + SET UP to simultaneously enter the menu SET.
- 3) Headline of the menu SEL MODEL.
- 4) Press ROLL UP to select the menu SET OPTIONS.
- 5) Headline of the menu SEL OPTIONS.
- 6) Press ENTER to entering in the menu.
- 7) The first item of the menu appears.
- 8) Press ROLL UP or ROLL DOWN to scroll the different items.
- 9) A new item appears.
- 10) Press SET UP or SET DOWN to modify the configuration.
- 11) The new configuration appears.
- 12) Press OUT to come out of the menu.
- 13) Confirmation of the modification request appears.
- 14) Press ENTER to confirm the modifications or press OUT to cancel.
- 15) Headline of the menu SEL OPTIONS appears.
- 16) Press OUT to return back to the opening display.



How make the programming operations with the console:

- 1) Opening display.
- 2) Press ENTER to enter the main menu .
- 3) The headline of the first item, PARAMETER CHANGE appears.
- 4) Press ENTER to enter to the function PARAMETERS.
- 5) The first parameter of the list appears.
- 6) Scroll the list of the parameters with the buttons ROLL UP and ROLL DOWN.
- 7) The item of the parameters appear.
- 8) Change the programmed level with the buttons SET UP and SET DOWN.
- 9) The new value adjusted appears.
- 10) Press OUT when programming is finished.
- 11) The confirmation request appears.
- 12) Press ENTER to confirm the modifications or OUT to cancel.
- 13) The headline of the item PARAMETER CHANGE appears.
- 14) Press ROLL UP or ROLL DOWN for scrolling the other items, or press OUT for coming back to the opening display.



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