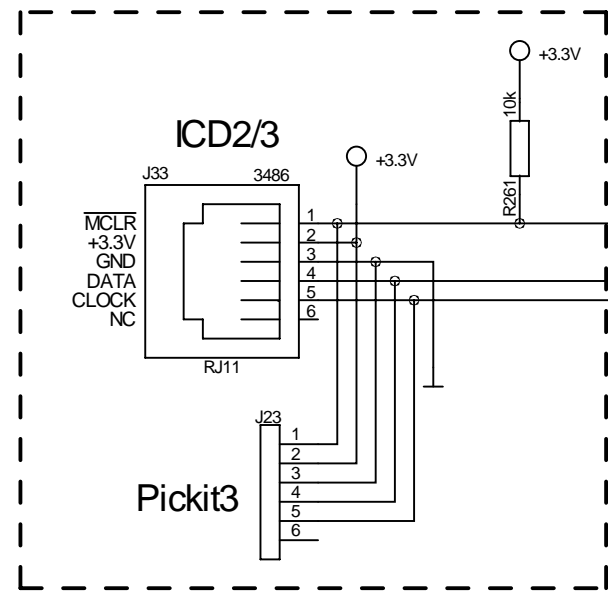
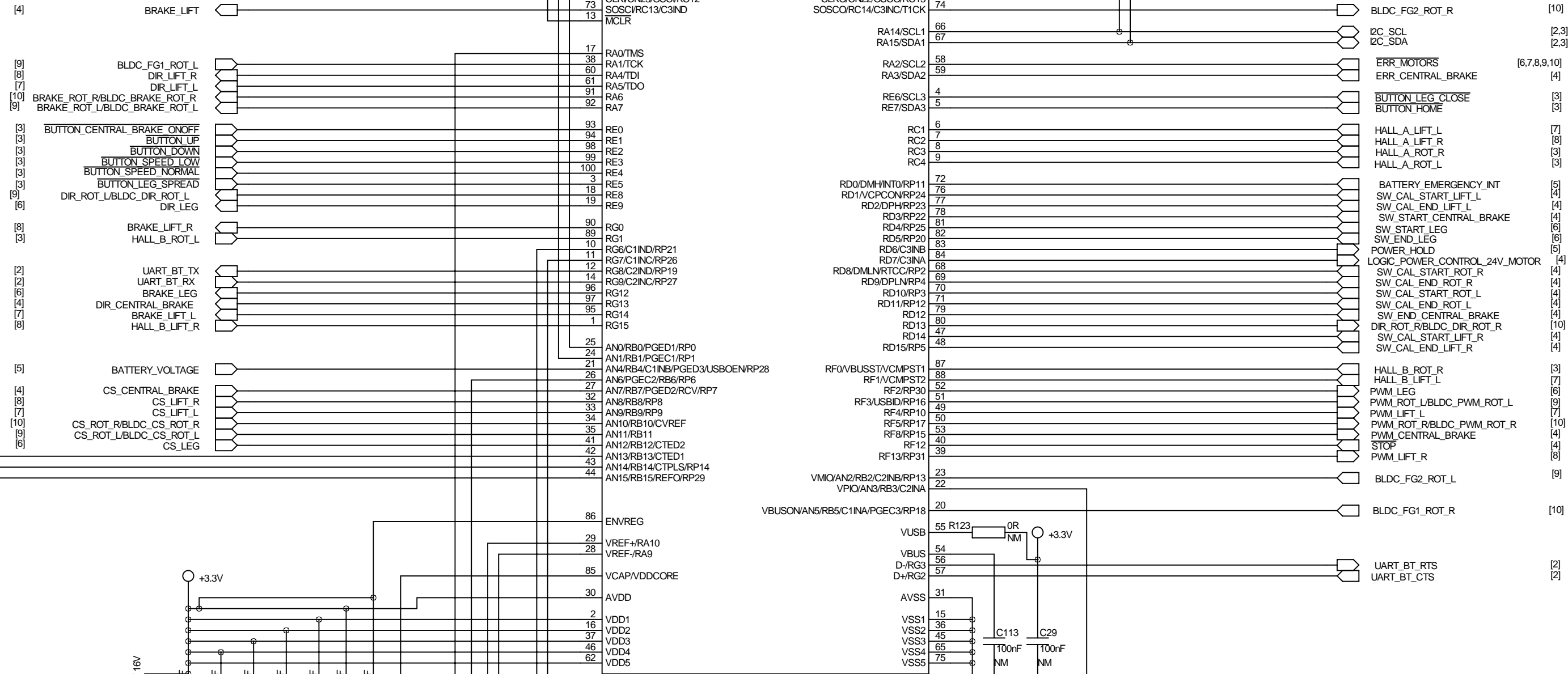
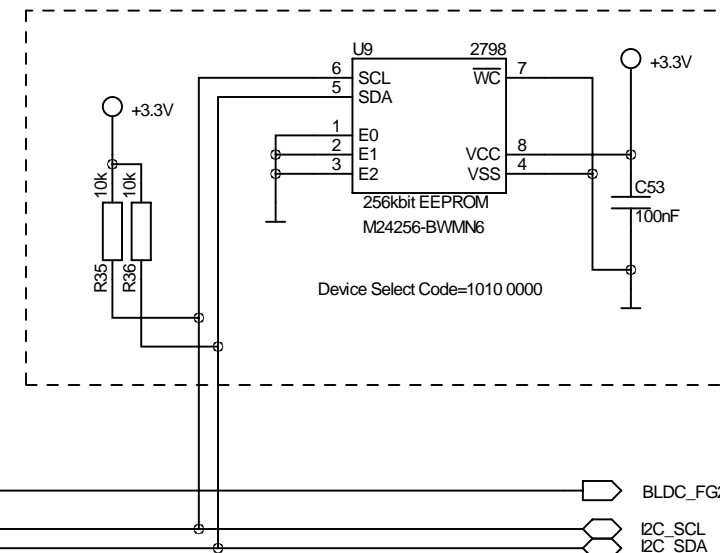


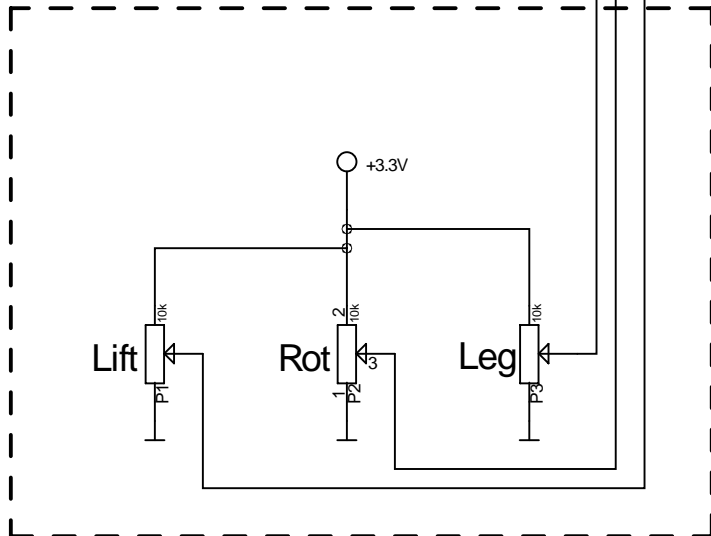
Programmer Interface



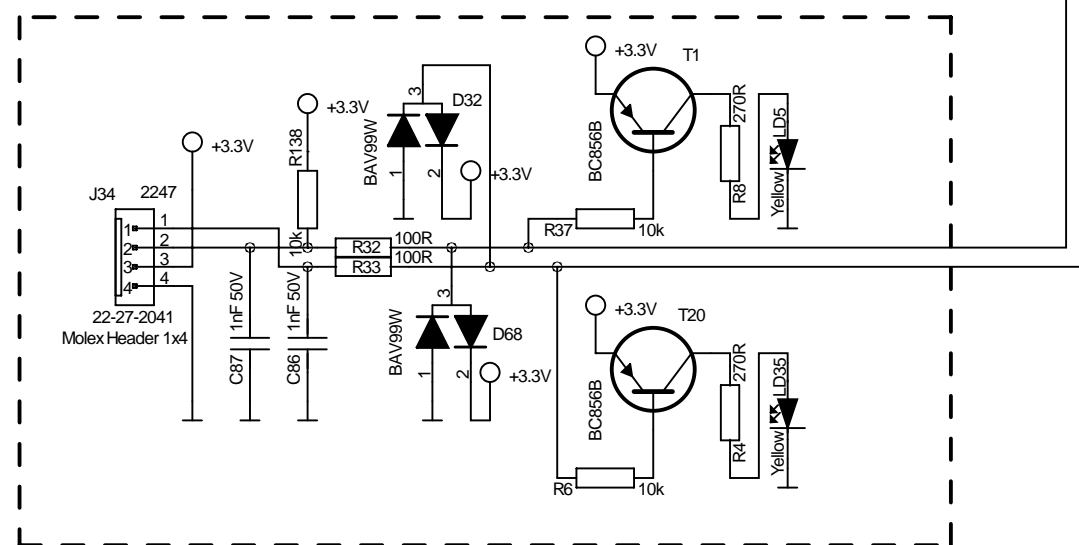
Serial Memory 256kbit I2C



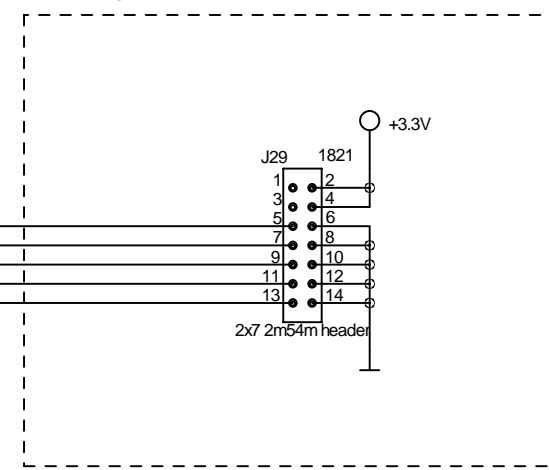
Reference Current settings



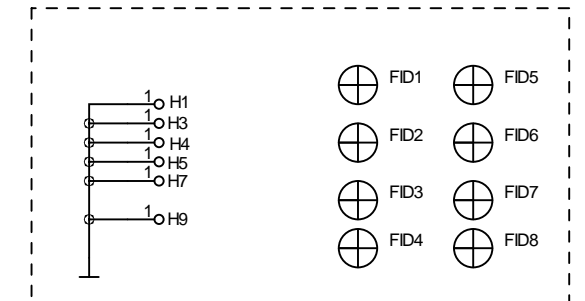
Maximove Connection



Debug port



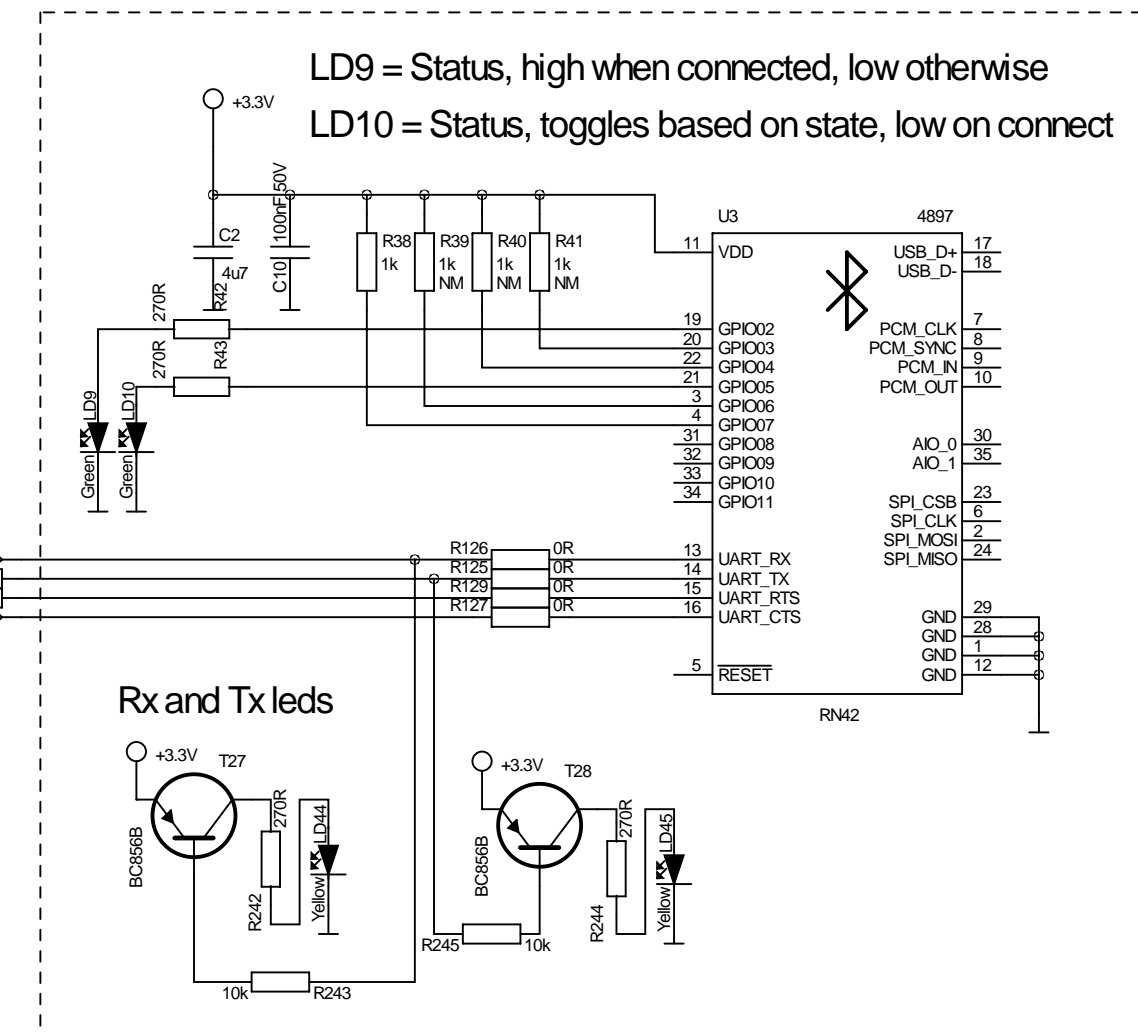
Mounting holes and fiducials



CUSTOMER ARCHIVE INFORMATION

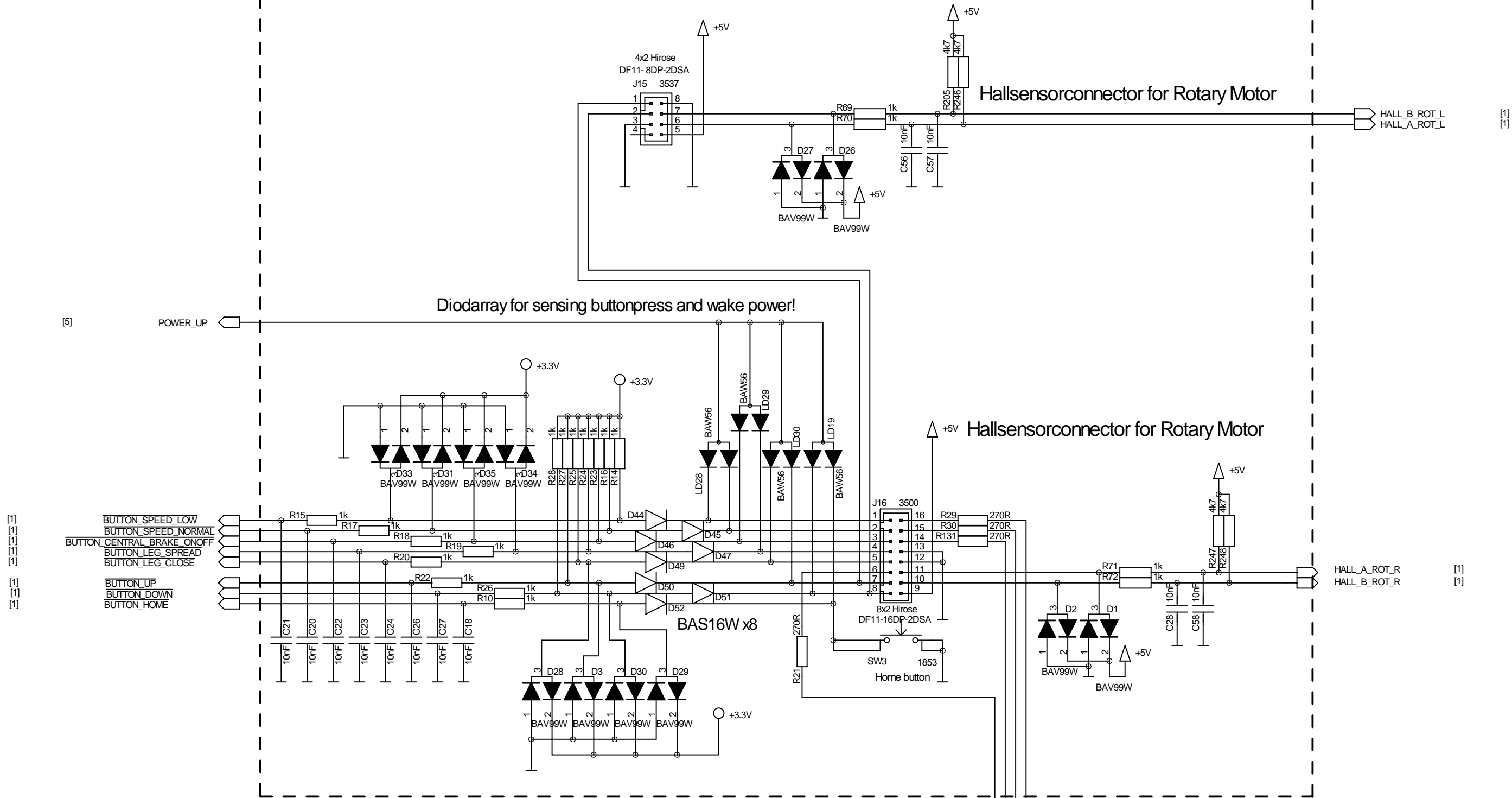
ArjoHunteigh	PREPARED: Tony Sandgren		
	APPROVED: Musadjan Alim	DATE: Jan 28, 2014	REV: PA3
	PRODUCT NAME: PM		
SHEET NAME: CPU_PROG_MEM_POT		DOCUMENT NUMBER: 40-1524-14-01	PAGE: 1 OF 11

```
3 ;<- preferred choice
; 0: Level triggered
; 1: Level triggered (sustained)
; 2: Edge triggered
; 3: Edge triggered (re-triggerable)
; 4: Edge triggered (stop on release)
```

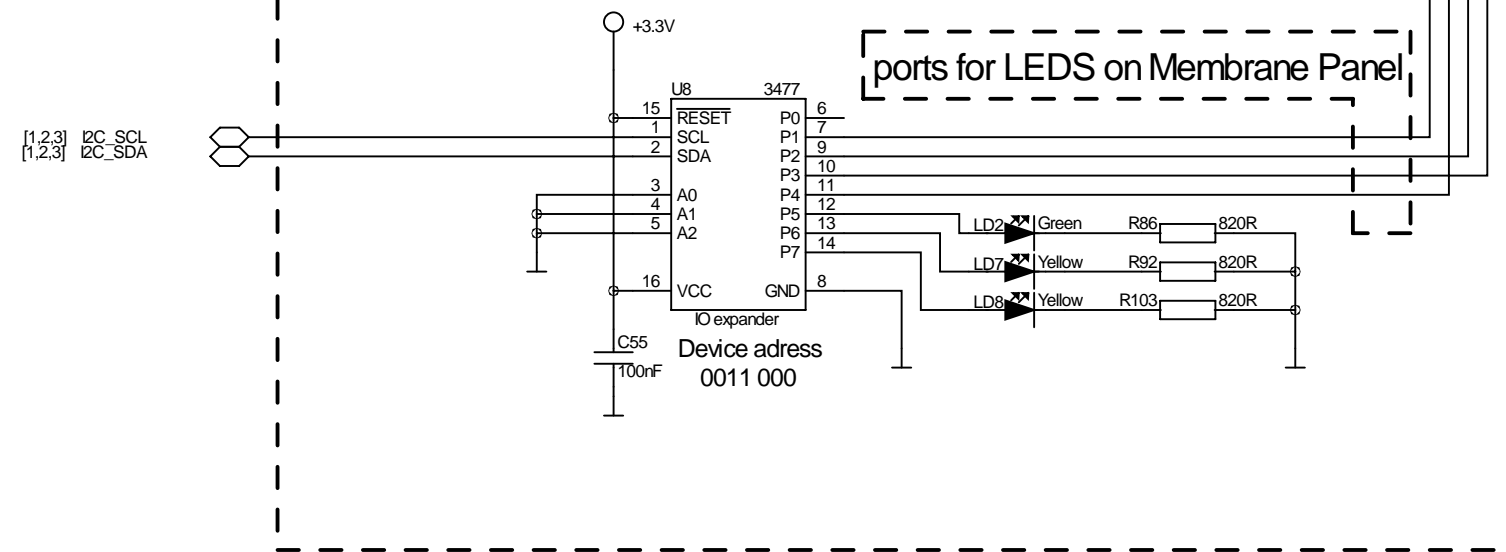


CUSTOMER ARCHIVE INFORMATION					
ArjoHuntleigh			PREPARED: Tonny Sandgren		
			APPROVED: Musadjan Alim	DATE: Jan 28, 2014	REV: PA3
			PRODUCT NAME: PRM		
SHEET NAME: AUDIONOVA RUI LI TEOOTH	DOCUMENT NUMBER: 00-15790-0000				PAGE: 11

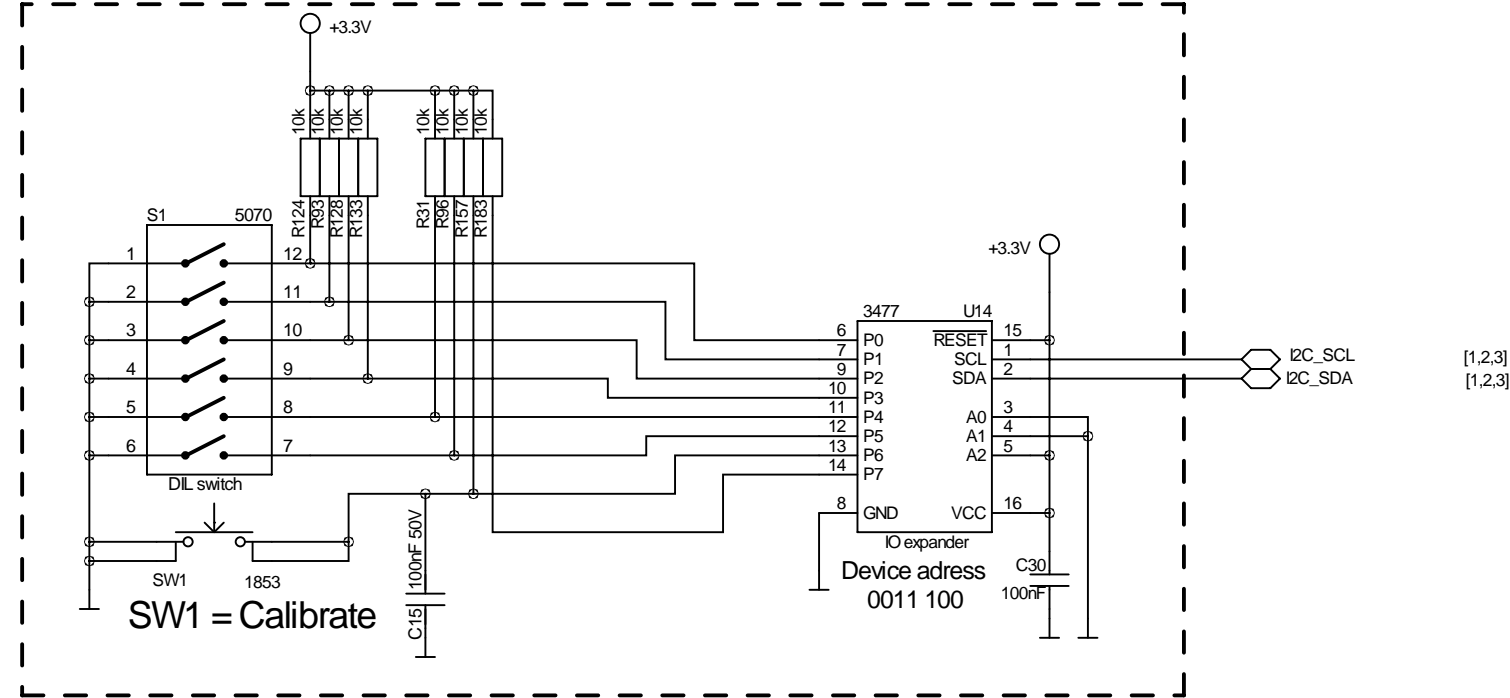
Membran Panels



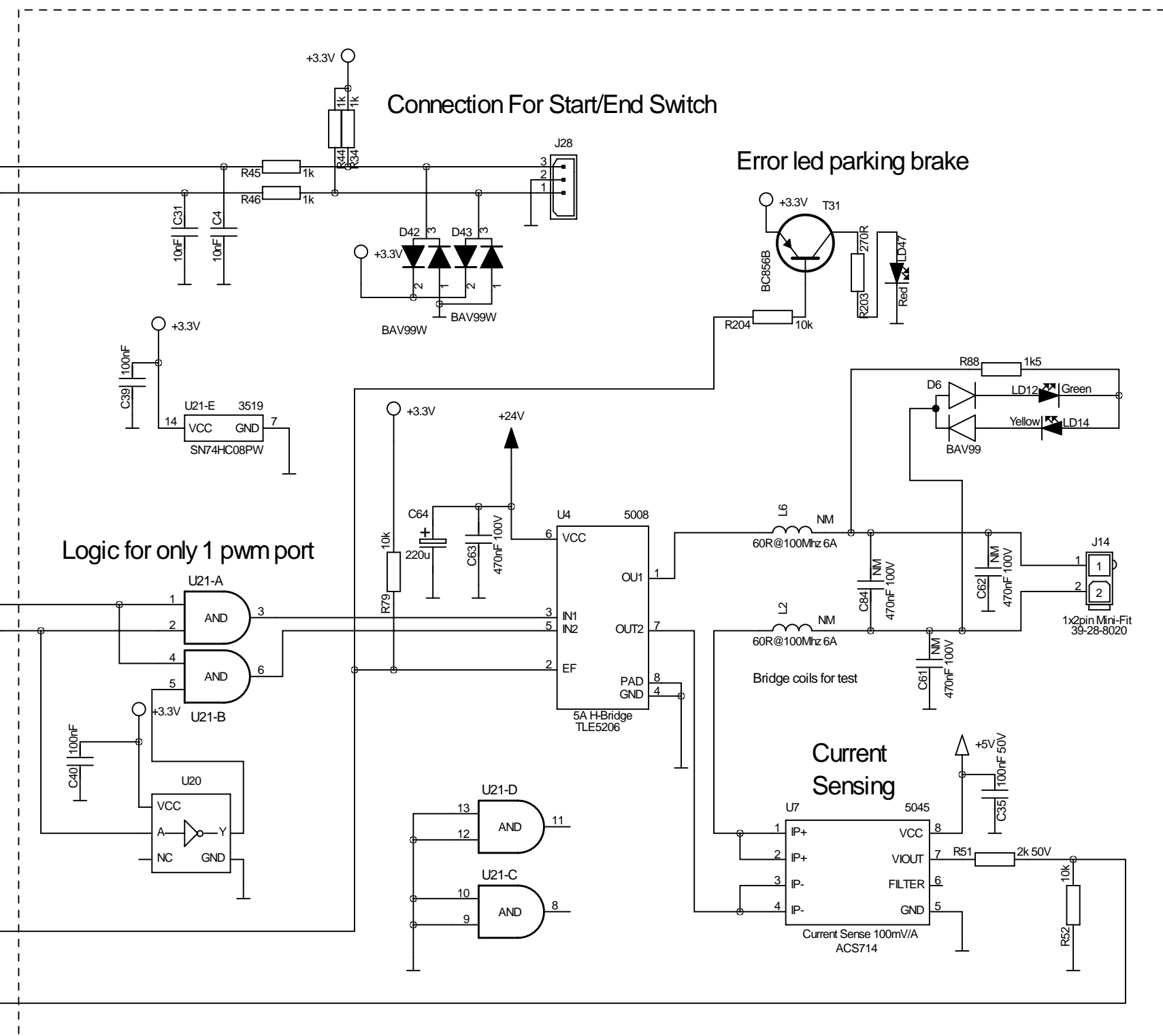
General statusleds

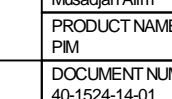


Dip switches, Calibrate button



Parking Brake for Pim





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Error Leds:

FF2 LED

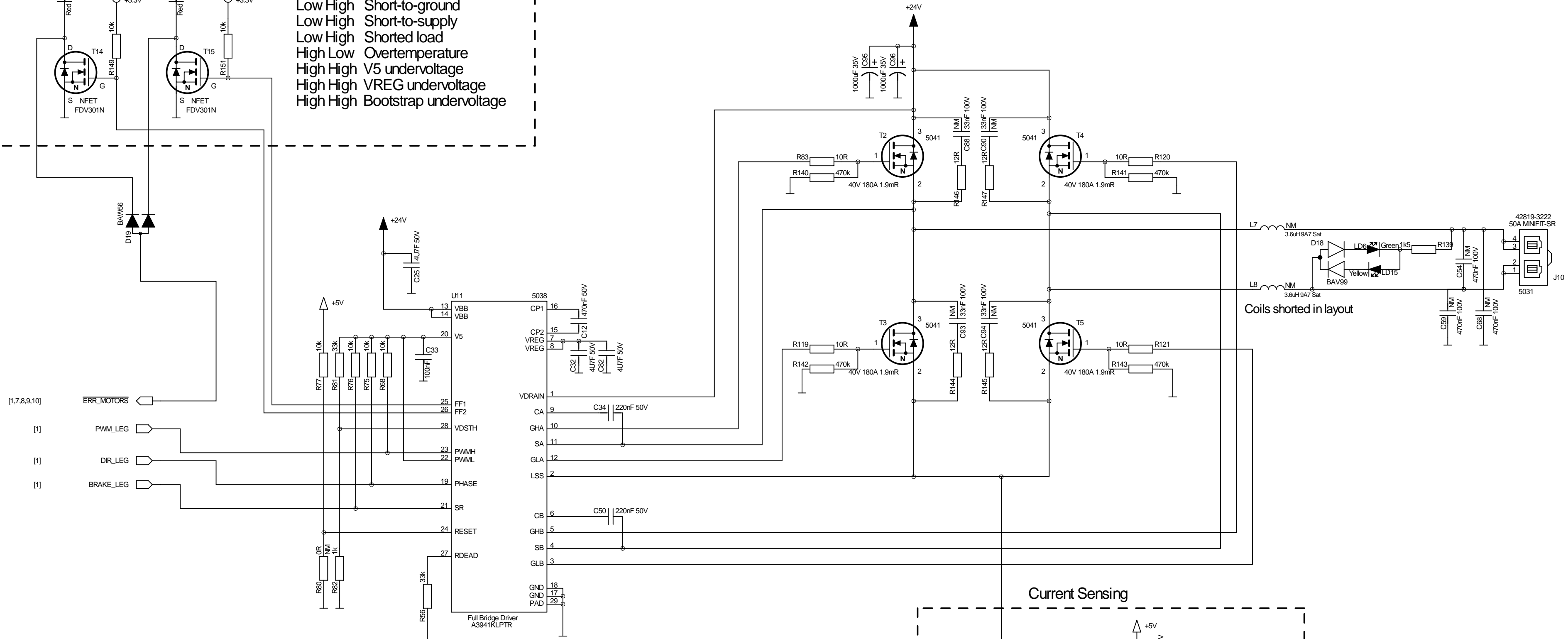
FF1 LED

Fault Definitions

Flag State

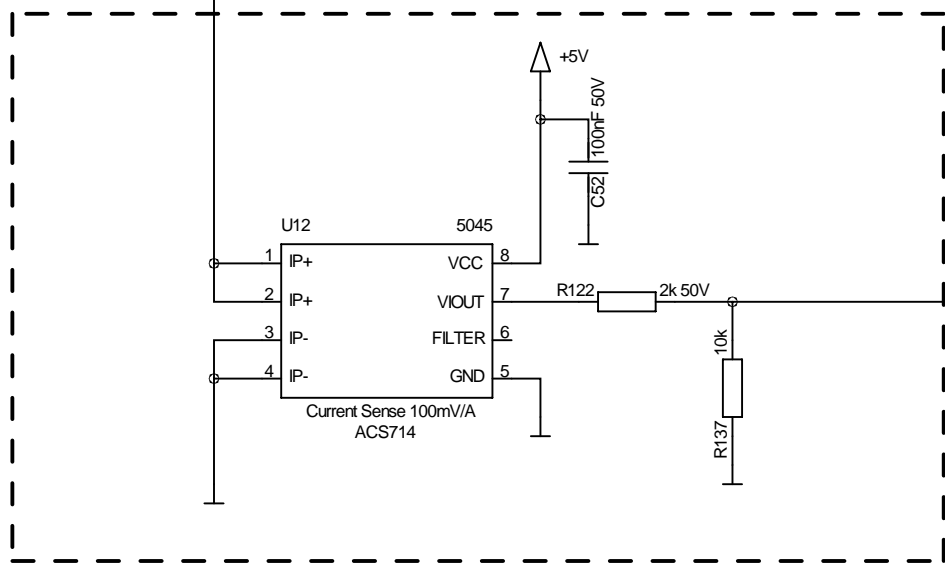
FF1 FF2 Fault Description

Low Low No fault
Low High Short-to-ground
Low High Short-to-supply
Low High Shorted load
High Low Overtemperature
High High V5 undervoltage
High High VREG undervoltage
High High Bootstrap undervoltage

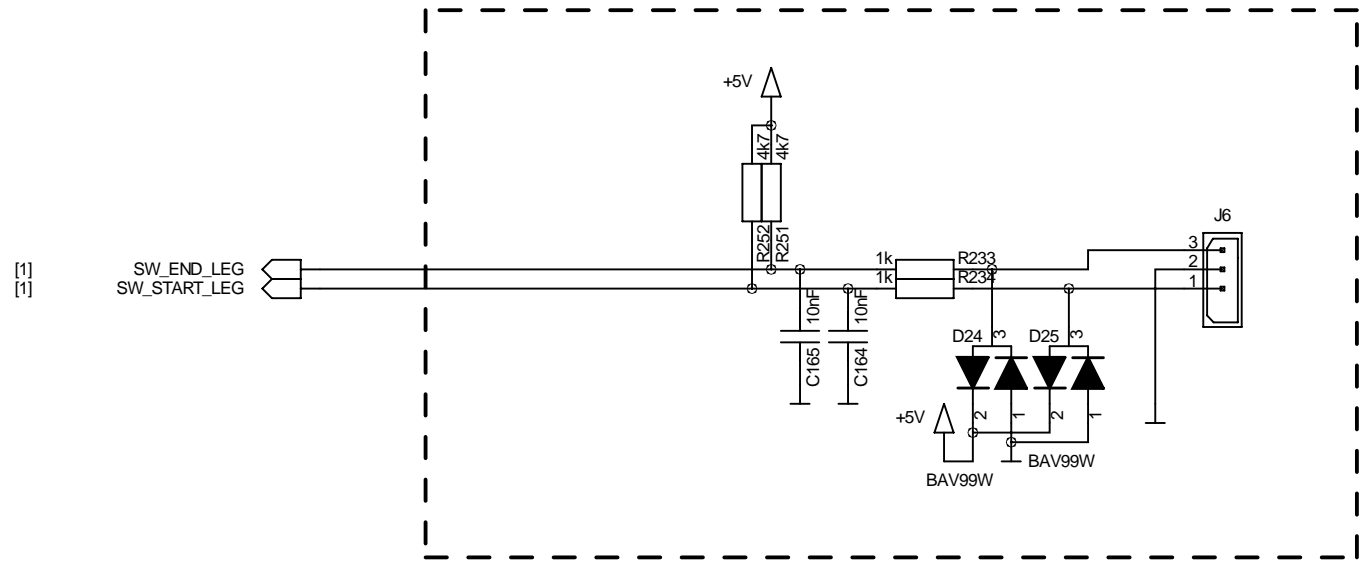


Coils shorted in layout

Current Sensing



Start/End Switches



SVEP FILES ARCHIVE INFORMATION

Customer 1524 Project 14 Subproject 01 Filetype 40, Schematic Rev PA3

PREPARED: Tony Sandgren CONTACT INFORMATION: pcbcad@svep.se



CUSTOMER ARCHIVE INFORMATION

ArjoHunteigh	PREPARED: Tony Sandgren		
	APPROVED: Musadjan Alim	DATE: Jan 28, 2014	REV: PA3
	PRODUCT NAME: PM		
SHEET NAME: LEG_SPREADCLOSE_MOTOR			PAGE: 6 OF 11

Error Leds:

FF2 LED

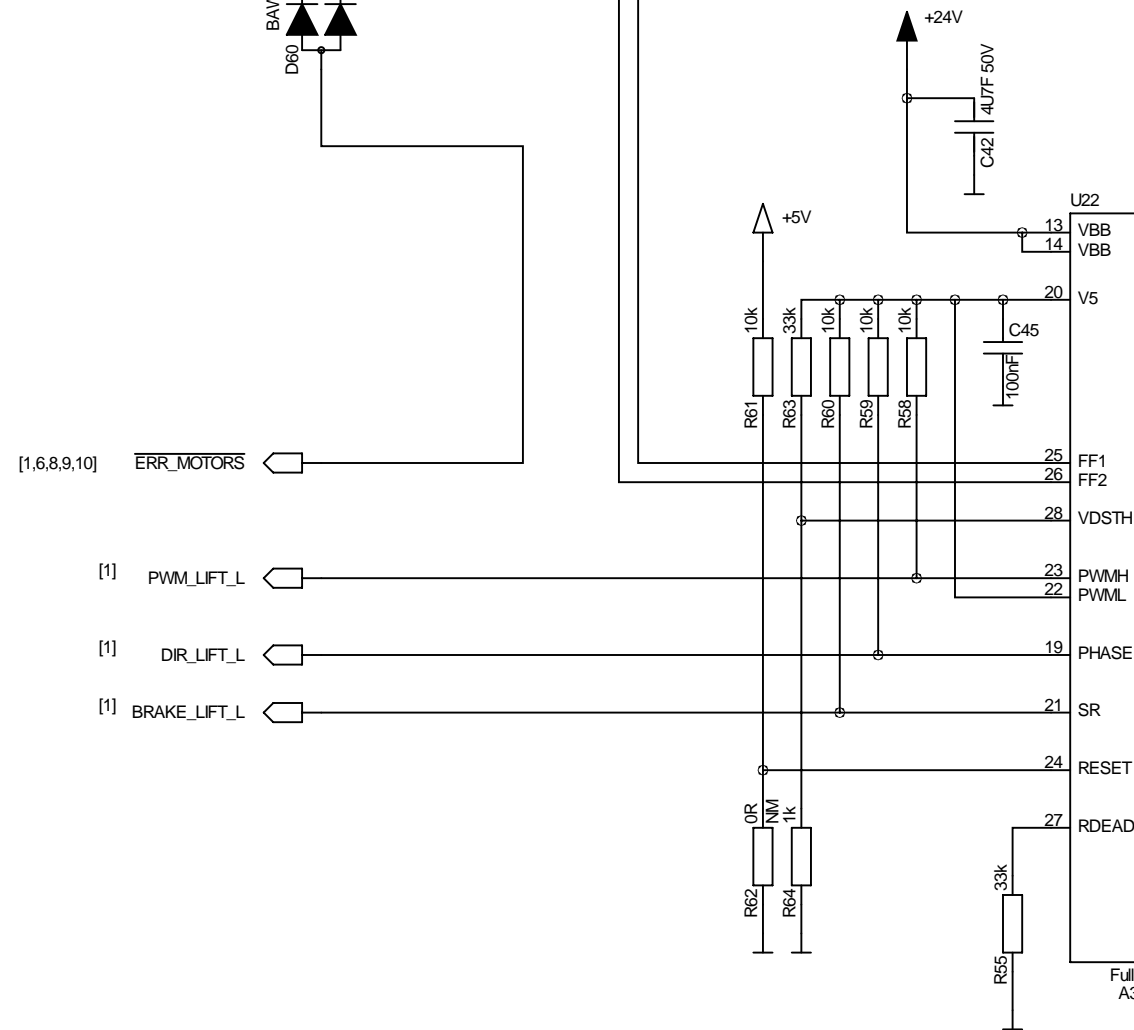
FF1 LED

Fault Definitions

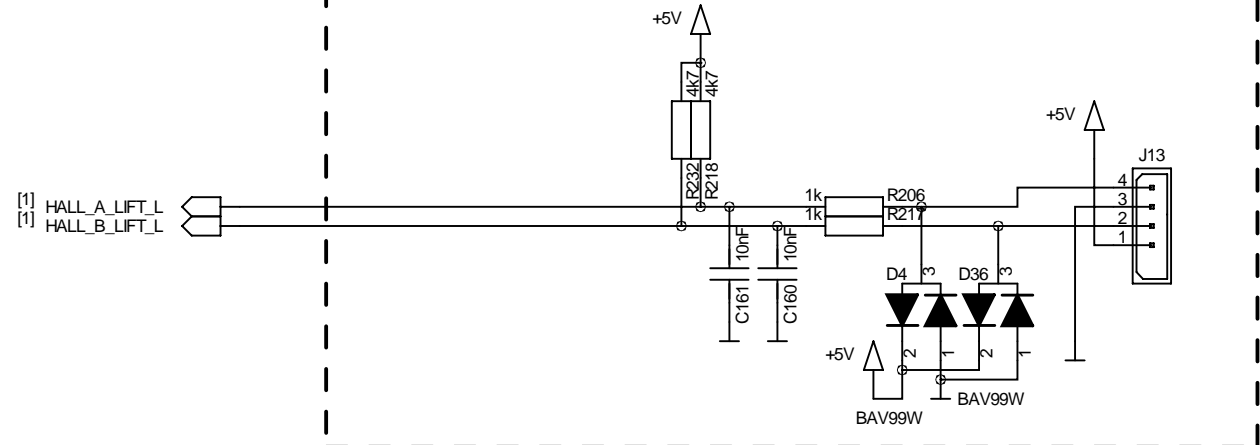
Flag State

FF1 FF2 Fault Description

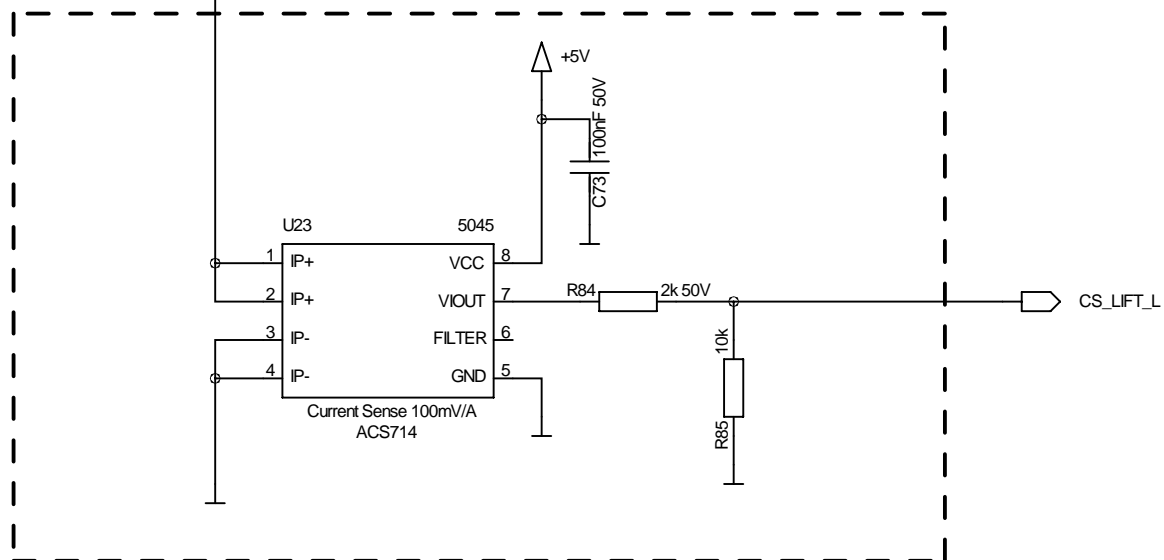
Low Low No fault
Low High Short-to-ground
Low High Short-to-supply
Low High Shorted load
High Low Overtemperature
High High V5 undervoltage
High High VREG undervoltage
High High Bootstrap undervoltage



Hallsensor Connector



Current Sensing



Coils shorted in layout

SVEP FILES ARCHIVE INFORMATION

Customer 1524 Project 14 Subproject 01 Filetype 40, Schematic Rev PA3

PREPARED: Tony Sandgren CONTACT INFORMATION: pcbcad@svep.se



CUSTOMER ARCHIVE INFORMATION

ArjoHunteigh

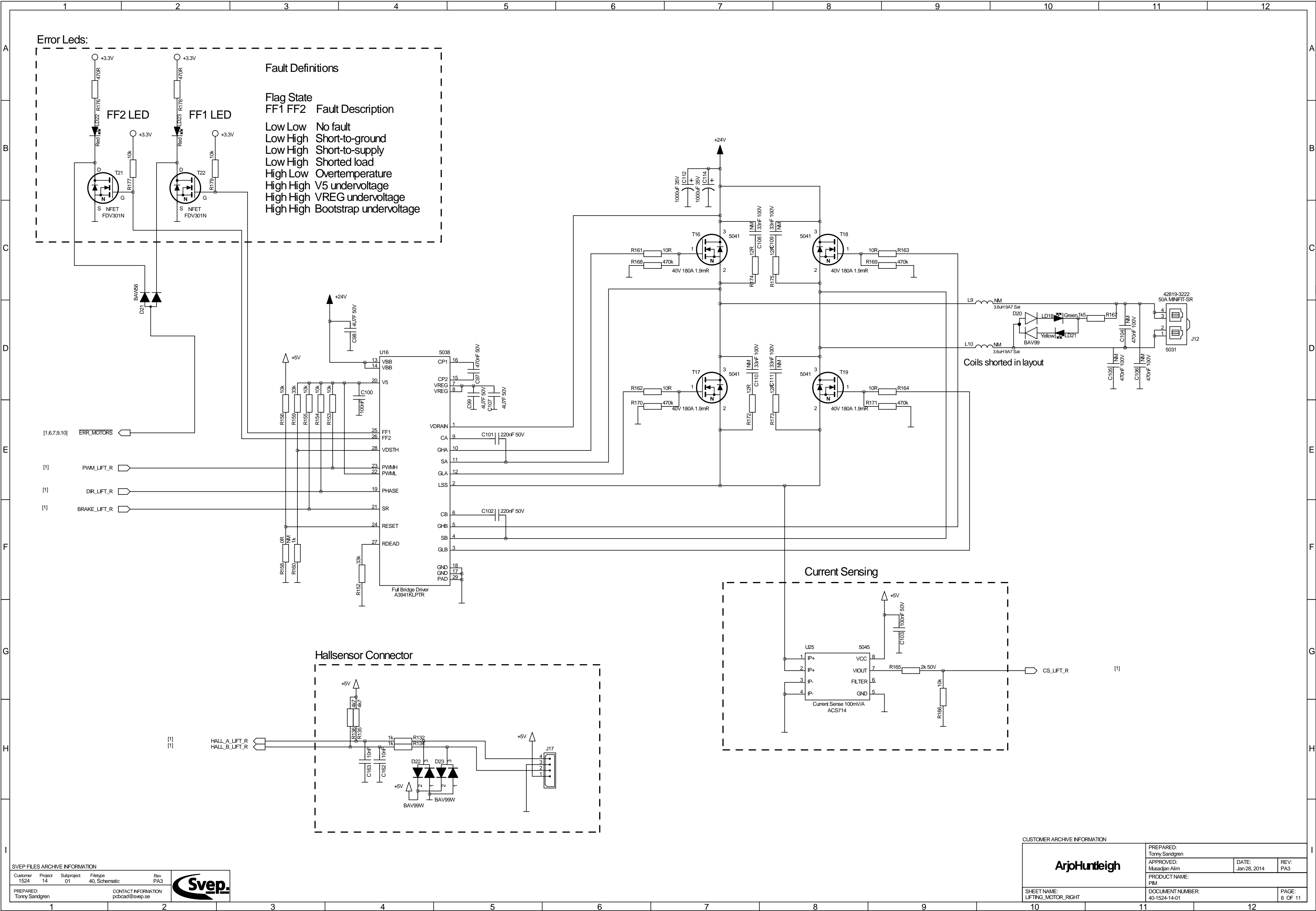
PREPARED: Tony Sandgren

APPROVED: Musadjan Alim DATE: Jan 28, 2014 REV: PA3

PRODUCT NAME: PM

SHEET NAME: LIFTING MOTOR LEFT

DOCUMENT NUMBER: 40-1524-14-01 PAGE: 7 OF 11



Error Leds:

FF2 LED

FF1 LED

Fault Definitions

Flag State

FF1 FF2 Fault Description

Low	Low	No fault
Low	High	Short-to-ground
Low	High	Short-to-supply
Low	High	Shorted load
High	Low	Overtemperature
High	High	V5 undervoltage
High	High	VREG undervoltage
High	High	Bootstrap undervoltage

Short J19 to disable U27

Connector for BLDC Motor

Ground with current sense

Current Sensing

Coils shorted in layout

SVEP FILES ARCHIVE INFORMATION

Customer	Project	Subproject	Filetype	Rev
1524	14	01	40, Schematic	PA3

PREPARED:	CONTACT INFORMATION:
Tonny Sandgren	pcbcad@svep.se



CUSTOMER ARCHIVE INFORMATION

ArjoHunteigh

PREPARED:
Tonny Sandgren

APPROVED:
Musadjan Alim

DATE:
Jan/28, 2014

REV:
PA3

PRODUCT NAME:
PM

SHEET NAME:
ROTATING_MOTOR_LEFT

DOCUMENT NUMBER:
40-1524-14-01

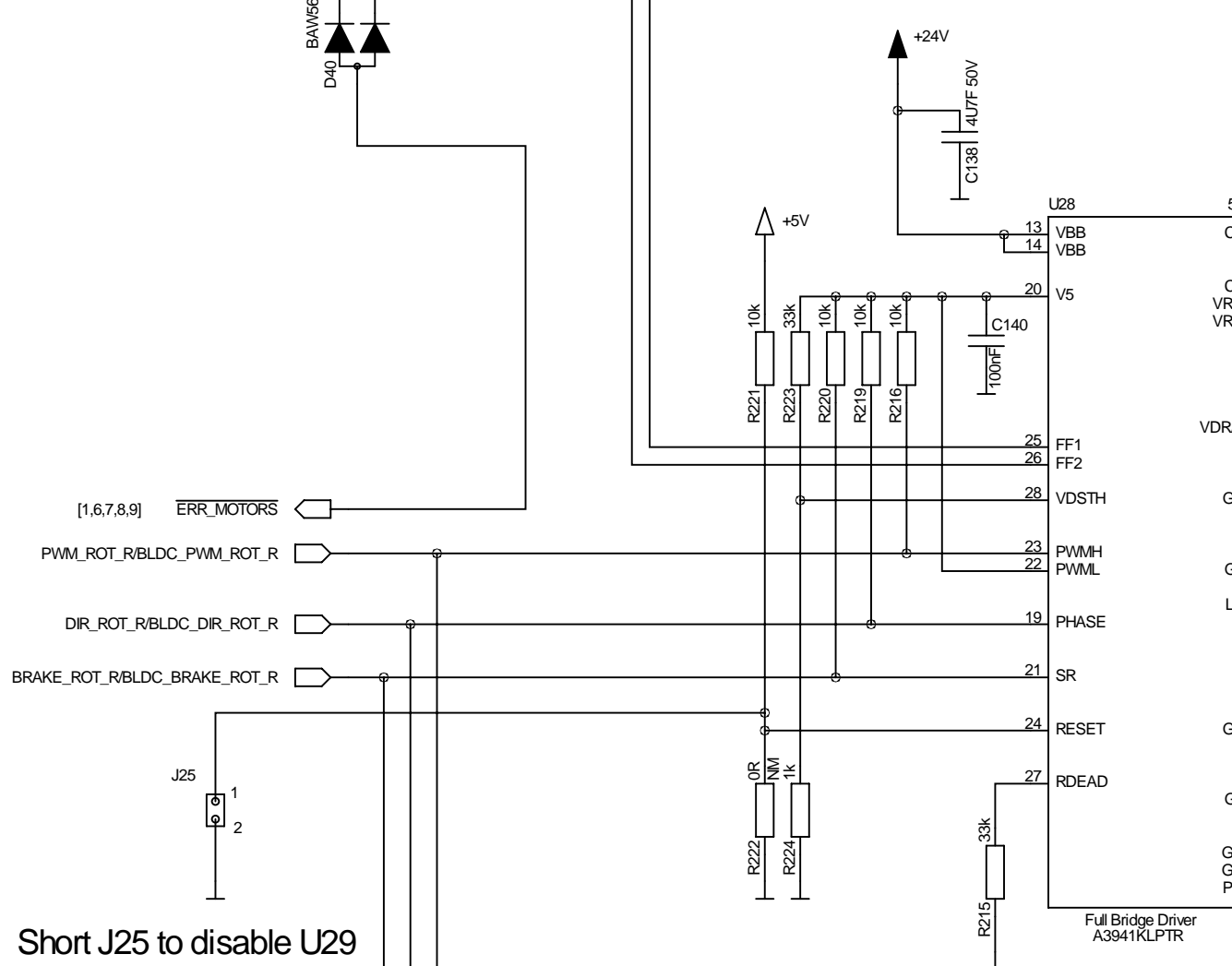
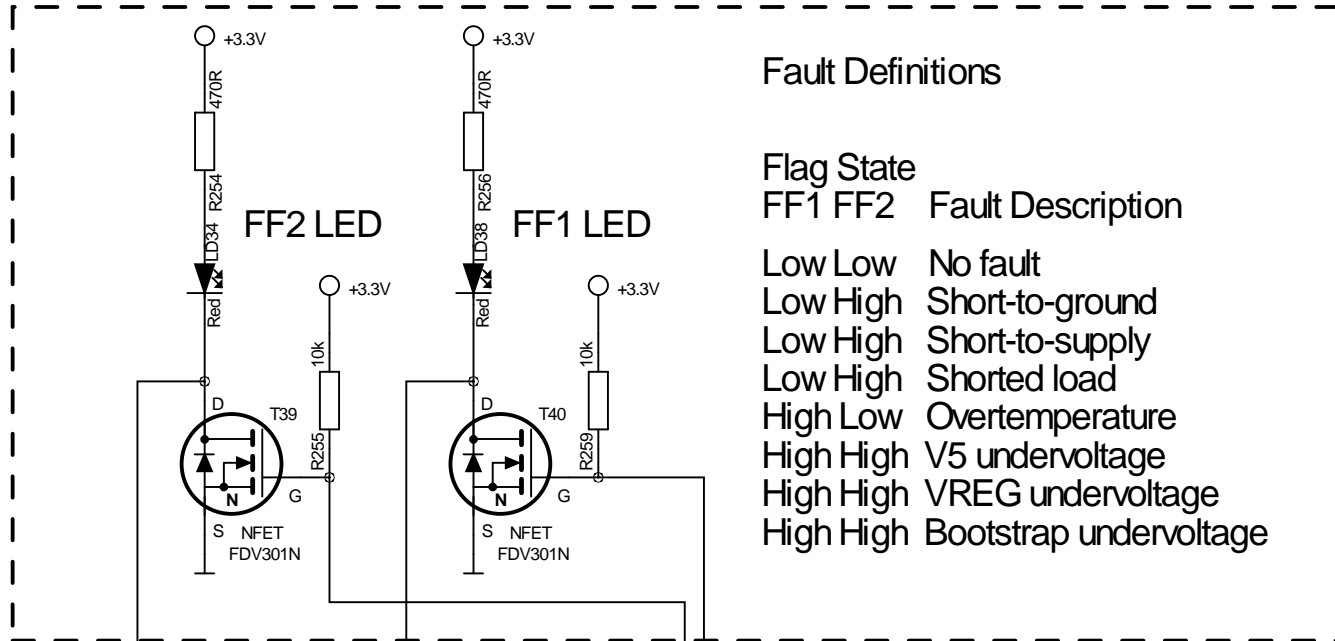
PAGE:
9 OF 11

Error Leds:

Fault Definitions

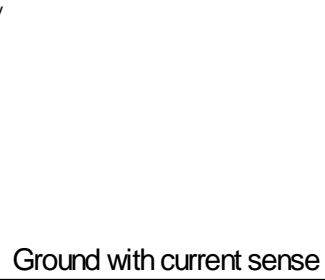
Flag State
FF1 FF2 Fault Description

Low Low No fault
Low High Short-to-ground
Low High Short-to-supply
Low High Shorted load
High Low Overtemperature
High High V5 undervoltage
High High VREG undervoltage
High High Bootstrap undervoltage



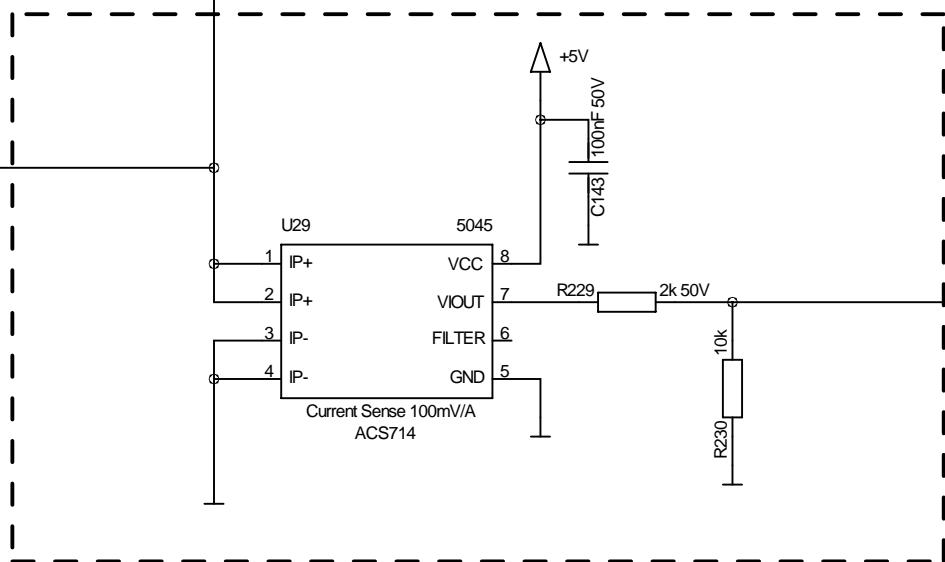
Short J25 to disable U29

Connector for BLDC Motor



Ground with current sense

Current Sensing



Coils shorted in layout

SVEP FILES ARCHIVE INFORMATION				
Customer	Project	Subproject	Filetype	Rev
1524	14	01	40, Schematic	PA3
PREPARED:		CONTACT INFORMATION:		
Tonny Sandgren		pbcad@svep.se		



CUSTOMER ARCHIVE INFORMATION

ArjoHunteigh		PREPARED:	
		Tonny Sandgren	
SHEET NAME: ROTATING_MOTOR_RIGHT		APPROVED:	
		Musadjan Alim	
DOCUMENT NUMBER: 40-1524-14-01		DATE:	
		Jan 28, 2014	
PAGE: 10 OF 11		REV:	
		PA3	

REV	WHO	WHEN	WHAT
PA1	BOX	2014-01-27	First draft
PA2	BOX	2014-01-28	Uppdated infotext, changed voltage reference point, added artikel numbers to TBD components.
PA3	BOX	2014-01-30	Changes: <div><div>page CPU: Changed X1 to 20Mhz. C181, C182 changed to 10pf Changed text att potentiometer level settings Changed text to only Maximove. Added J23 for pickit3 Uppdated text in headers Added Debug port with unused pins.</div><div>Page brakes/switches: Changed ld14 to yellow Added errorled for STOP Added errorled for Brake error</div><div>Motorpages (5 pages): Replaced all errorsignals with only one net: ERR_MOTORS Added Errorled LD33 on errorsignal. Replaced all red leds for direction indication on all motors. Added 2pin connector on rotary motors for easy disable of H-bridge.(if using BLDC-driver) added 2pcs 1000uf capacitor at each bridge. Rebuilt esd and emc filter for all hallsenors at H-bridges Rebuilt esd and emc filter for leg switch</div><div>Page Membrane_panel: Added ledconnection at pin14,J16. Removed Blue led at u8. Rebuilt esd and emc filter for all hallsenors at H-bridges Added esddiode for all membrane buttons. Calibrate button added 100nf cap.</div><div>Page:Mains powersupply: Added lots of pinheaders to all voltages. Removed nets: battery_voltage_logic, battery_voltage_reference cleaned up battery voltage measurement pin, and brownout detect changed caps for power, 2x1000uf.</div></div>