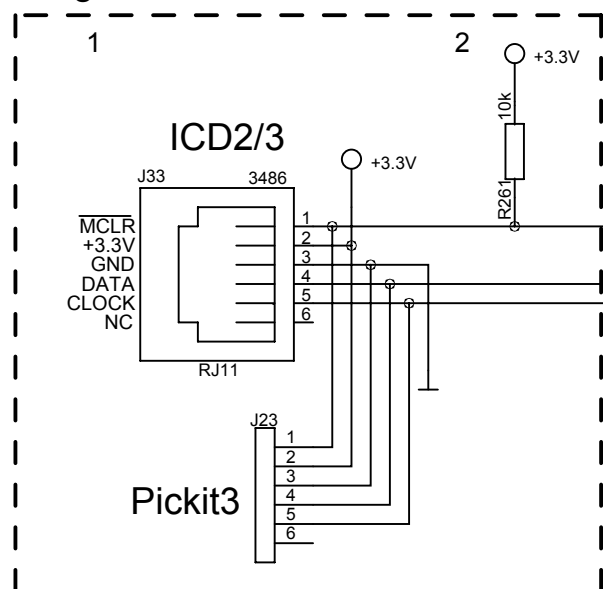
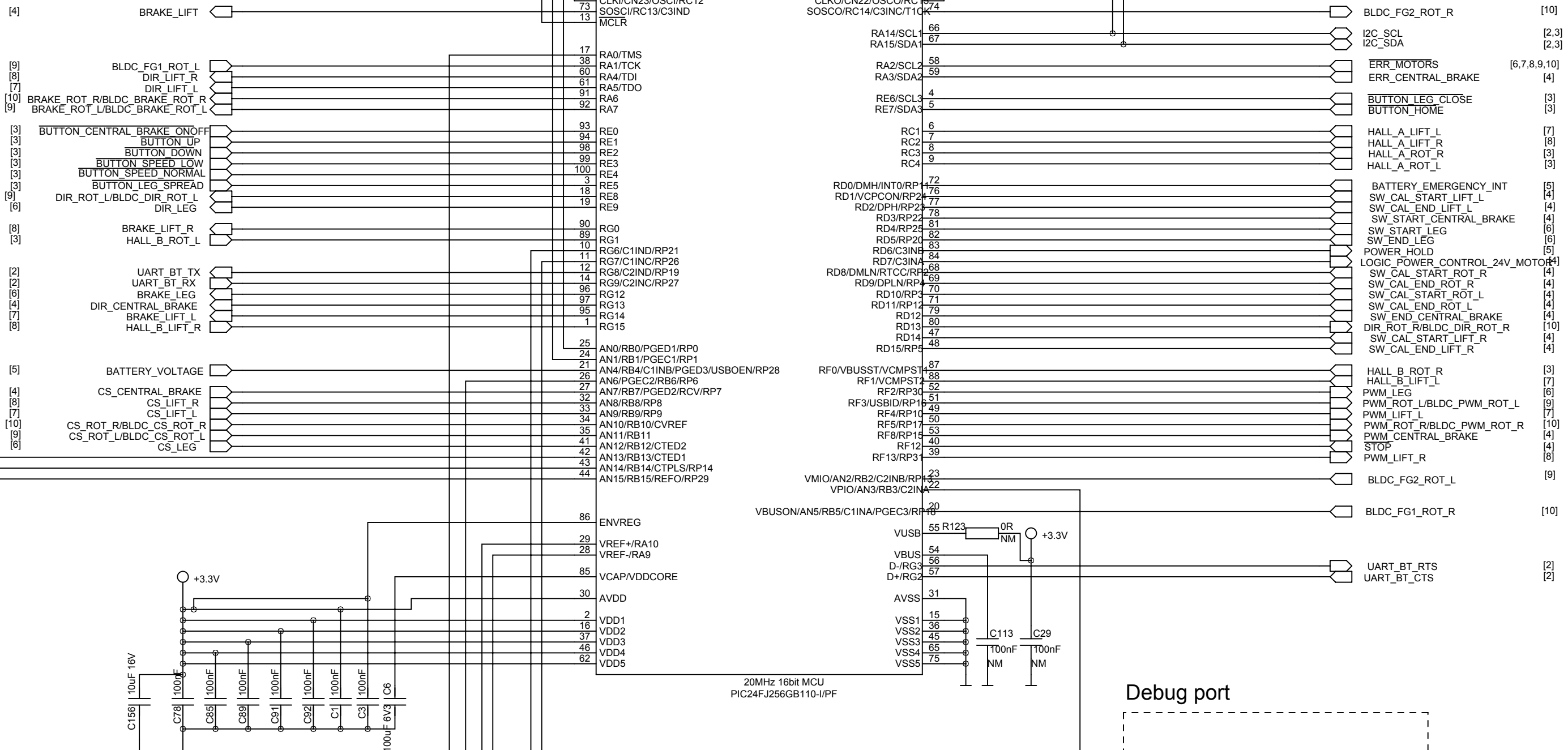
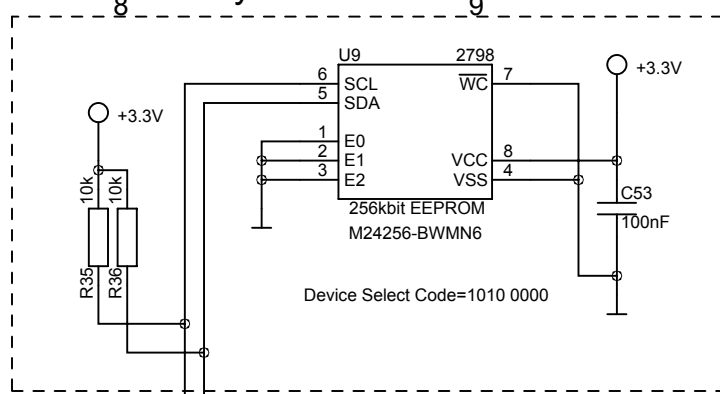


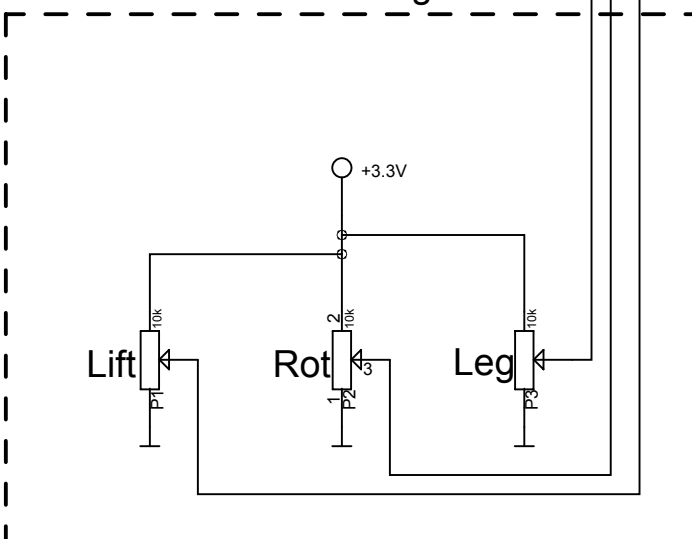
Programmer Interface



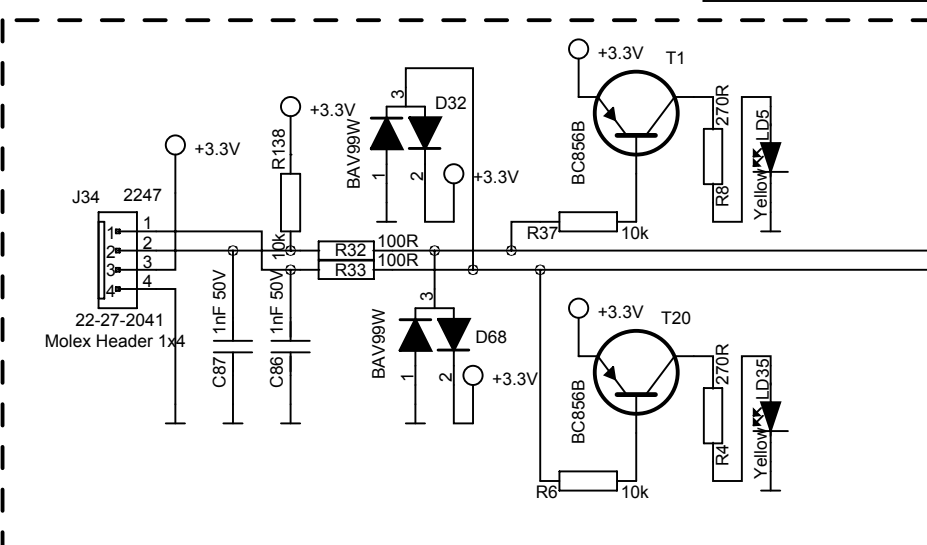
Serial Memory 256kbit I2C



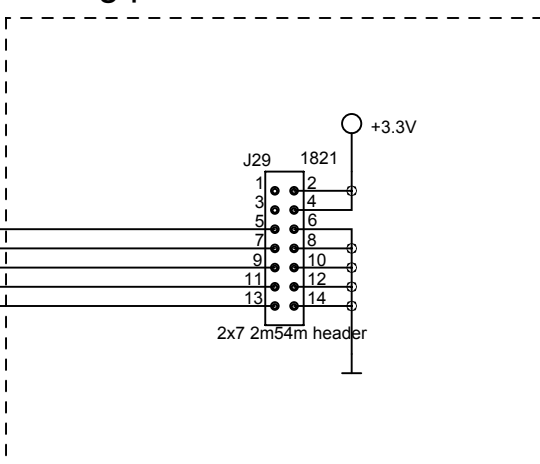
Reference Current settings



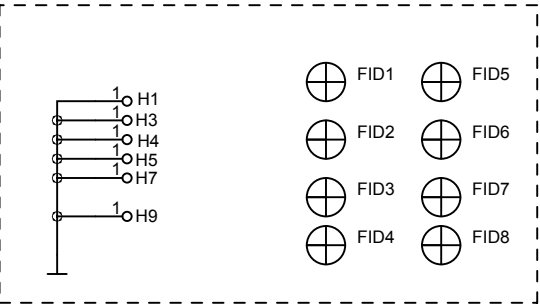
Maximove Connection

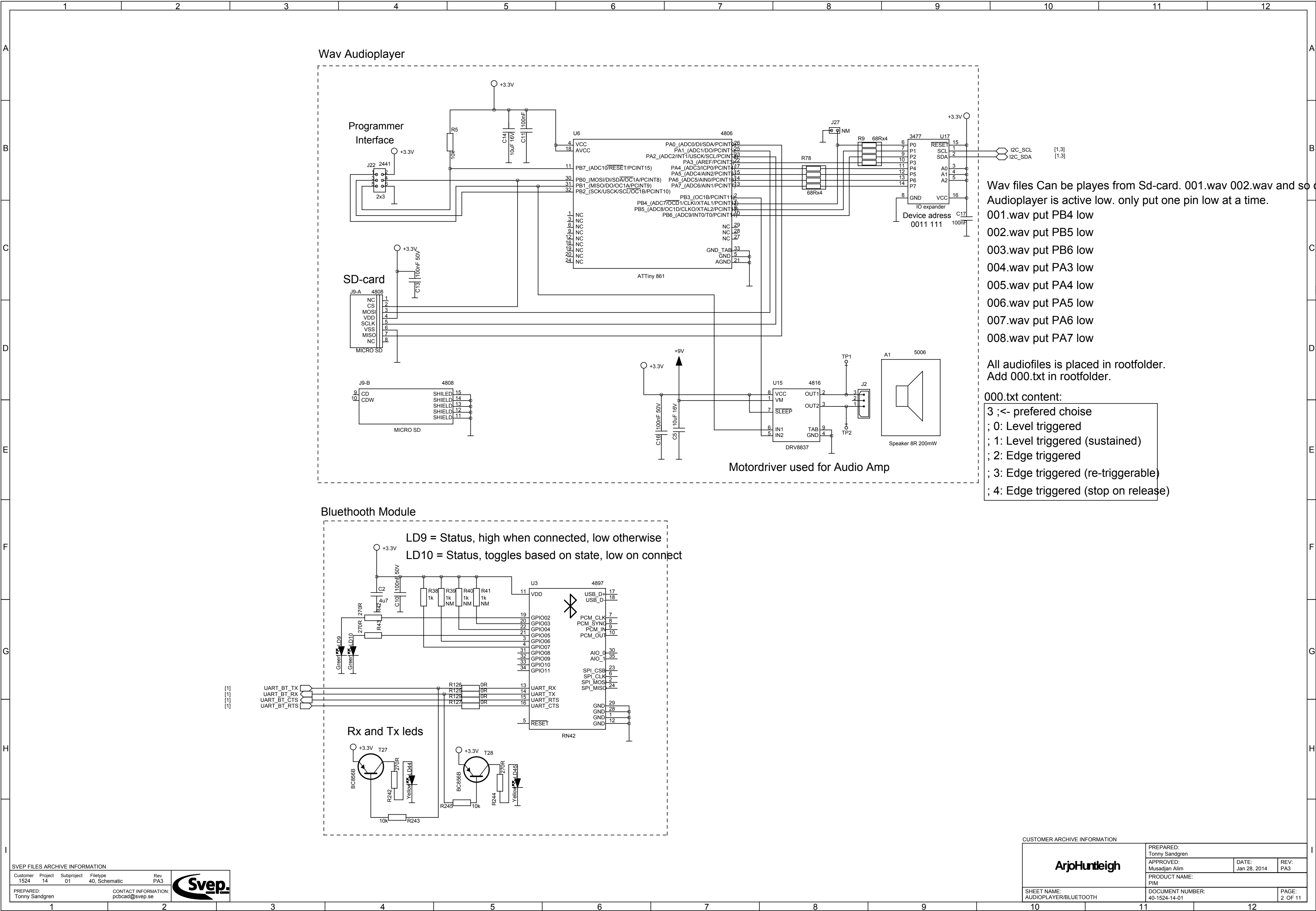


Debug port

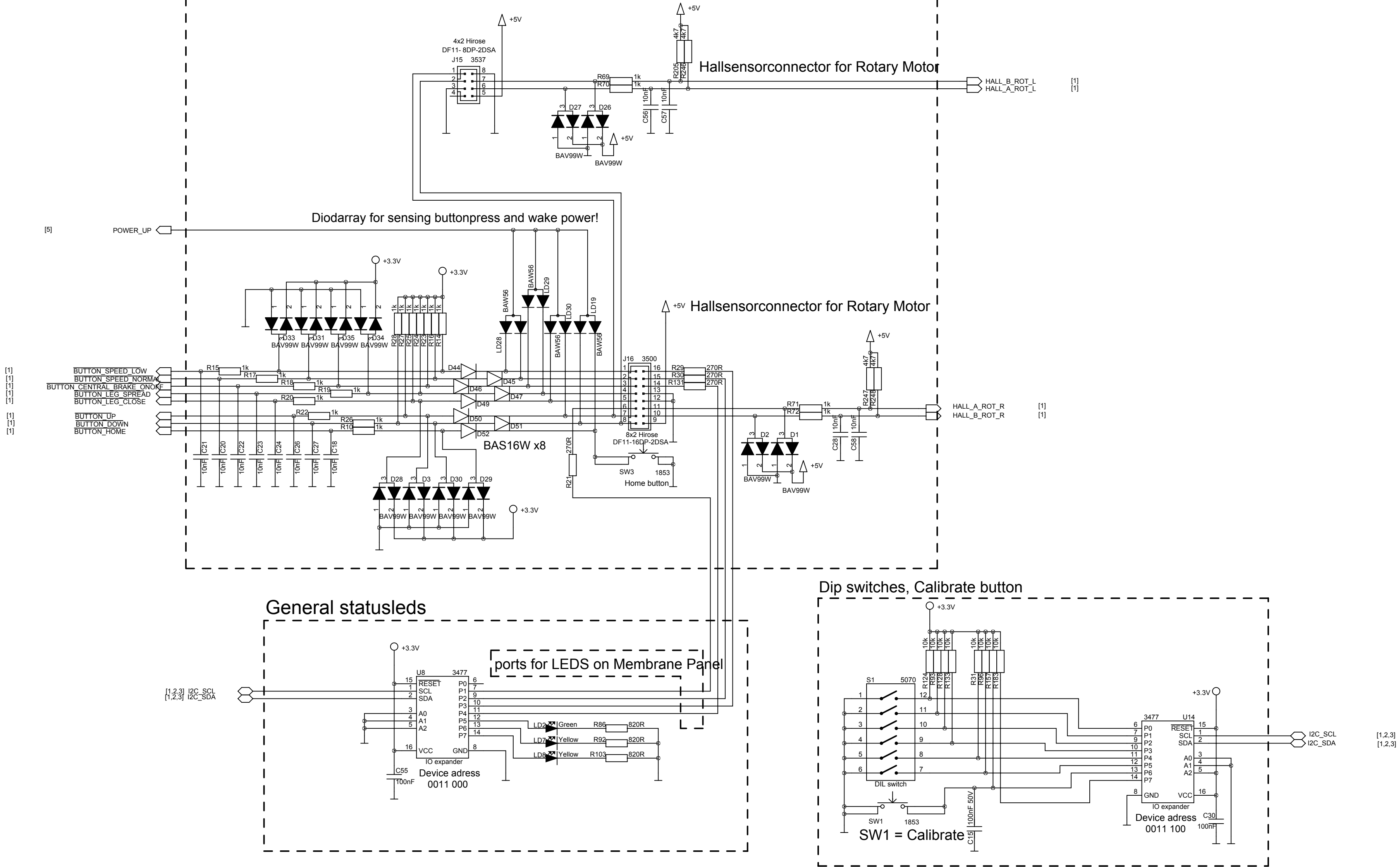


Mounting holes and fiducials

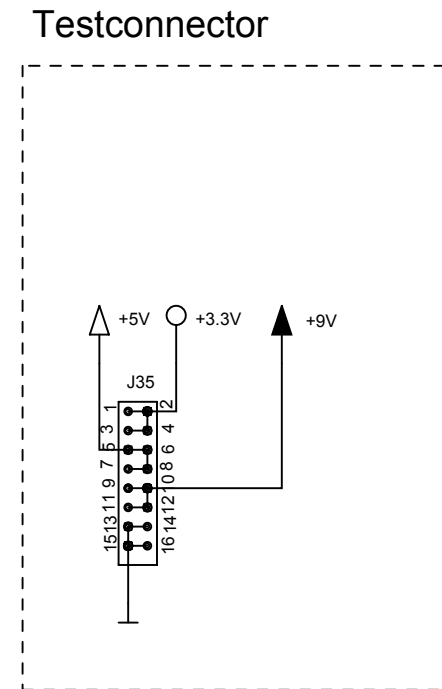
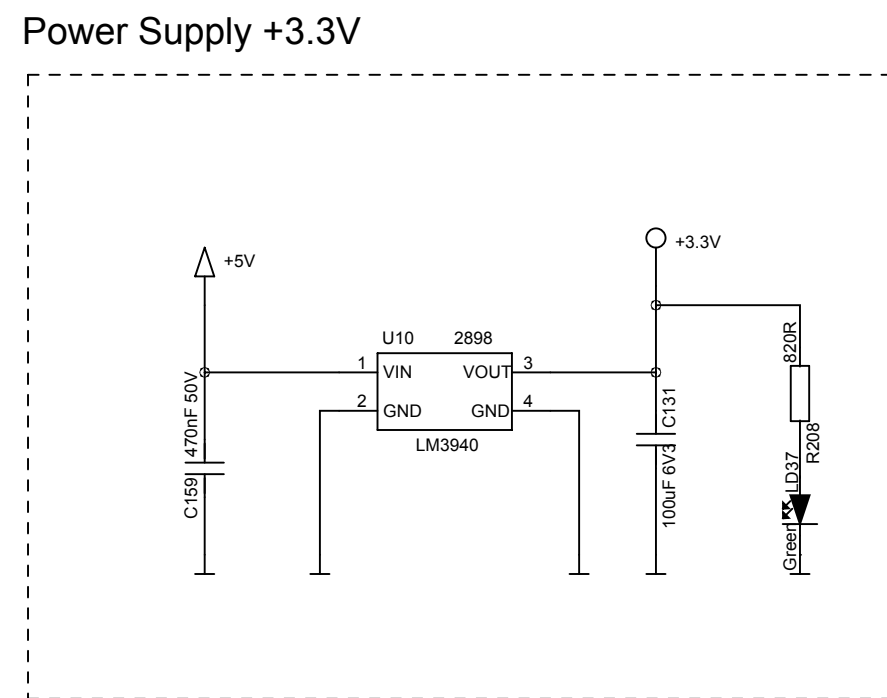





Membran Panels







CUSTOMER ARCHIVE INFORMATION			
	PREPARED: Tonny Sandgren		
	APPROVED: Musadjan Alim	DATE: Jan 28, 2014	REV: PA3
PRODUCT NAME: PIM			
SHEET NAME: POWER_IN/BATTERY_LEVEL	DOCUMENT NUMBER: 40-1524-14-01		PAGE: 5 OF 11

Error Leds:

FF2 LED

FF1 LED

Fault Definitions

Flag	State	Fault Description
FF1	Low	No fault
FF2	Low	Short-to-ground
FF1	High	Short-to-supply
FF2	High	Shorted load
FF1	Low	Overtemperature
FF2	High	V5 undervoltage
FF1	High	VREG undervoltage
FF2	High	Bootstrap undervoltage

[1,7,8,9,10]

[1]

[1]

[1]

Start/End Switches

Current Sensing

Coils shorted in layout

SVEP FILES ARCHIVE INFORMATION

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

PREPARED:
Tonny Sandgren

CONTACT INFORMATION:
pcbacad@svep.se



CUSTOMER ARCHIVE INFORMATION

ArjoHunteigh	PREPARED: Tonny Sandgren		
	APPROVED: Musadjan Alim	DATE: Jan 28, 2014	REV: PA3
	PRODUCT NAME: PIM		
SHEET NAME: LEG_SPREAD/CLOSE_MOTOR		DOCUMENT NUMBER: 40-1524-14-01	
			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

[1,6,8,9,10] ERR_MOTORS

[1] PWM_LIFT_L

[1] DIR_LIFT_L

[1] BRAKE_LIFT_L

Hallsensor Connector

[1] HALL_A_LIFT_L

[1] HALL_B_LIFT_L

Current Sensing

Coils shorted in layout

SVEP FILES ARCHIVE INFORMATION

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

PREPARED:
Tonny Sandgren

CONTACT INFORMATION:
pcbcaad@svep.se



CUSTOMER ARCHIVE INFORMATION

ArjoHunteigh

PREPARED:
Tonny Sandgren

APPROVED:
Musadjan Alim

DATE:
Jan 28, 2014

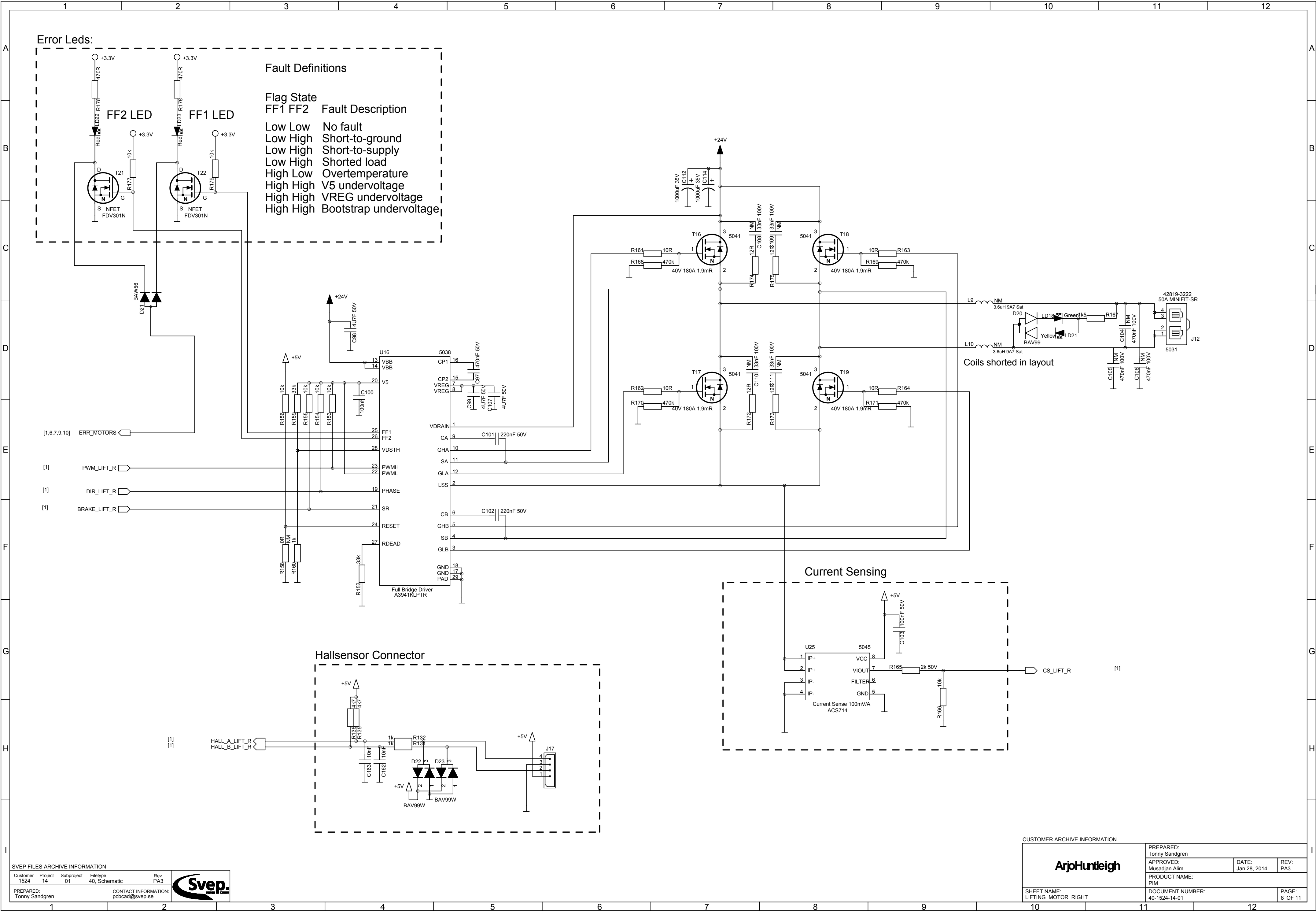
REV:
PA3

PRODUCT NAME:
PIM

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:
Tonny Sandgren

CONTACT INFORMATION:
pcbca@svsp.se



CUSTOMER ARCHIVE INFORMATION

ArjoHunteigh	PREPARED: Tonny Sandgren		
	APPROVED: Musadjan Alim	DATE: Jan 28, 2014	REV: PA3
	PRODUCT NAME: PIM		
SHEET NAME: ROTATING_MOTOR_LEFT		DOCUMENT NUMBER: 40-1524-14-01	PAGE: 9 OF 11

Error Leds:

FF2 LED

FF1 LED

Fault Definitions

Flag	State	Fault Description
FF1	Low	No fault
FF2	Low	Short-to-ground
FF1	High	Short-to-supply
FF2	High	Shorted load
FF1	High	Overtemperature
FF2	High	V5 undervoltage
FF1	High	VREG undervoltage
FF2	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:
Tonny Sandgren

CONTACT INFORMATION:
pcbacad@svep.se




CUSTOMER ARCHIVE INFORMATION

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

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>

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



CUSTOMER ARCHIVE INFORMATION			
ArjoHunteigh	PREPARED: Tonny Sandgren		
	APPROVED: Musadjan Alim	DATE: Jan 28, 2014	REV: PA3
	PRODUCT NAME: PIM		
SHEET NAME: REVISION_HISTORY		DOCUMENT NUMBER: 40-1524-14-01	PAGE: 11 OF 11