

апасн е части PrO Care

Технические характеристики

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Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
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Ижевск (3412)26-03-58
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Калининград (4012)72-03-81
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Киров (8332)68-02-04
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Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

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Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

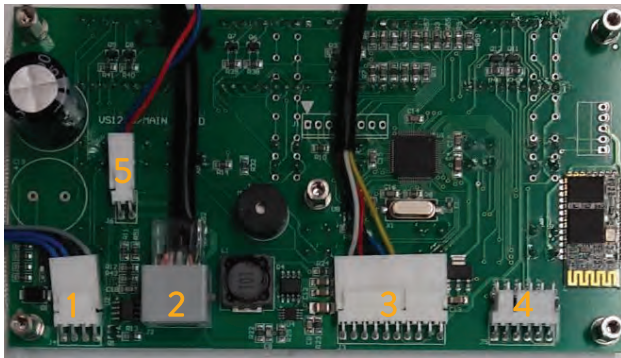
эл.почта: cif@nt-rt.ru || сайт: <https://centurionscientific.nt-rt.ru/>

CONNECTIONS

Year 2000 onwards

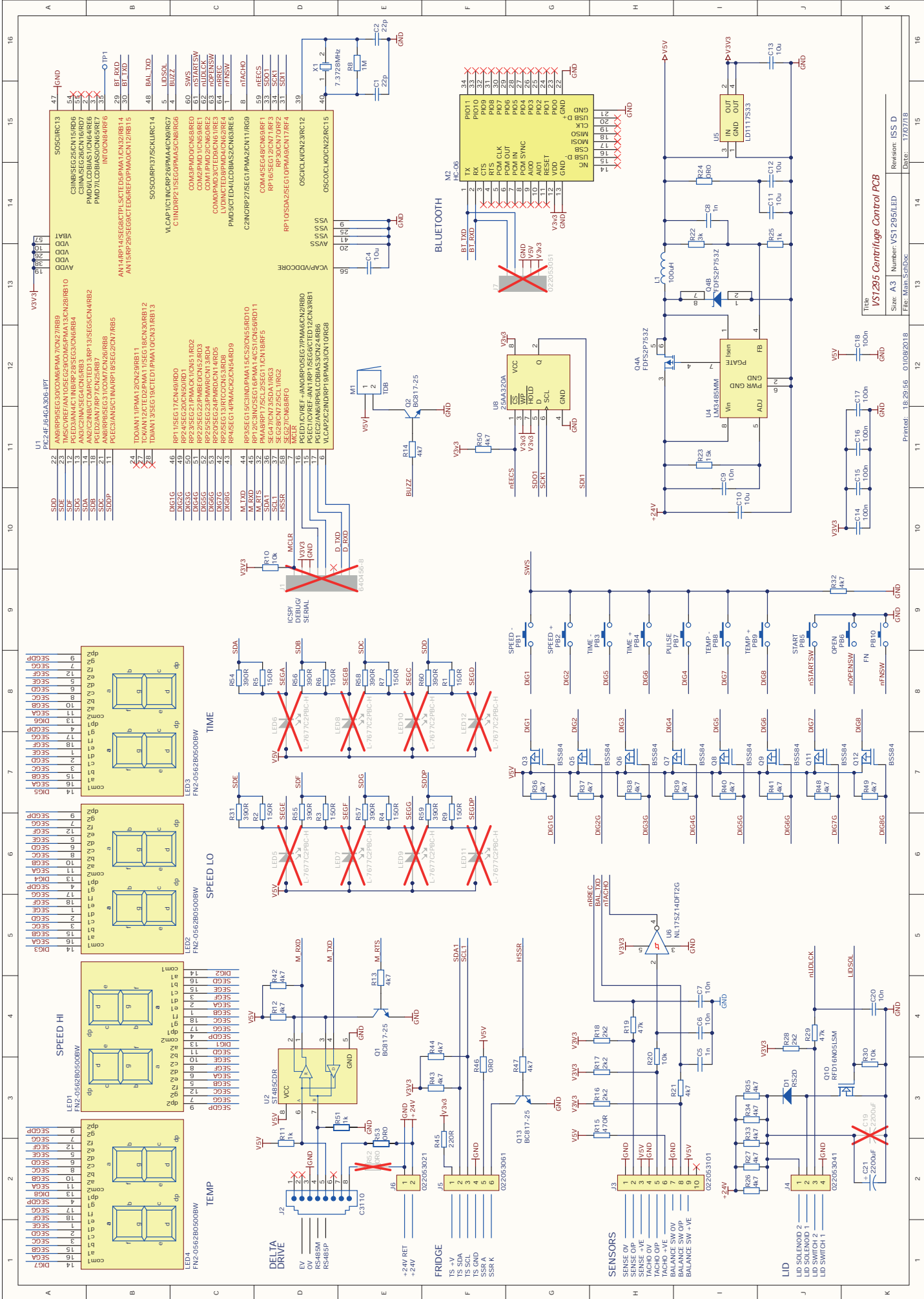


Connections. VS1295 Ambient LED



1. Lid (4 way)
2. RJ45 Ethernet connector
3. RRec,Tacho,Imbalance (10way)
4. Temperature (6 way). NOT USED
5. Delta Inverter only (2 way)





Rev: 1.0
Date: 17/03/18
ISS: D

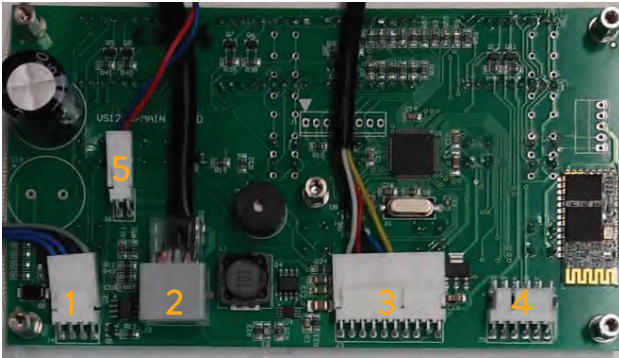
Size: A3
Number: VS1295/LED

File: Min.StcDoc

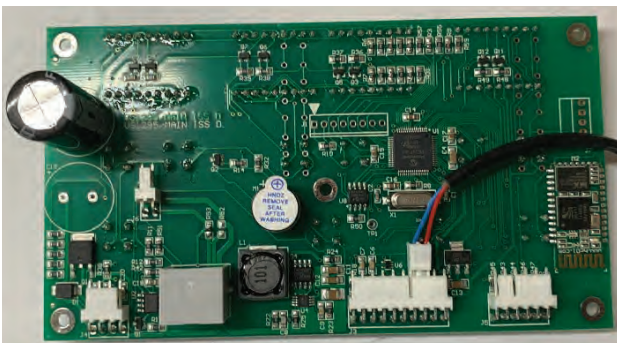
Printed: 18/29/16 01:08:2018

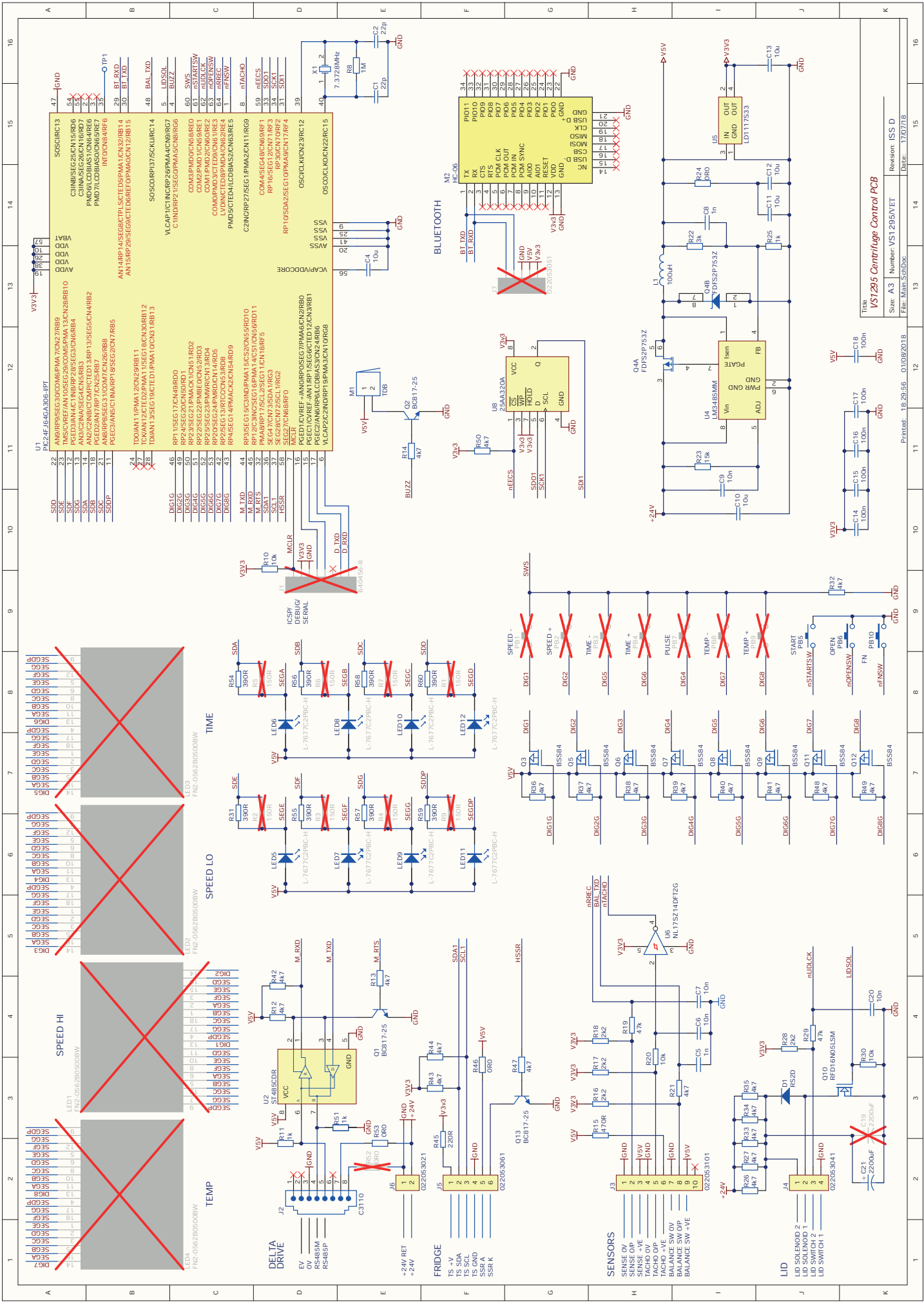
Title
VS1295 Centrifuge Control PCB

Connections. VS1295 Ambient LID



1. Lid (4 way)
2. RJ45 Ethernet connector
3. RRec,Tacho,Imbalance (10way)
4. Temperature (6 way). NOT USED
5. Delta Inverter only (2 way)





V51.295 Centrifuge Control PCB

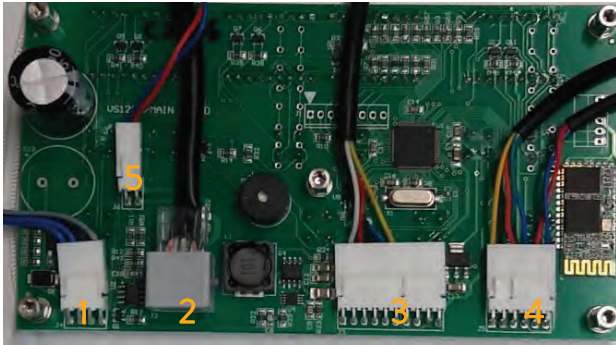
Tab: V51.295/VE1

Tab: Min.StaDoc

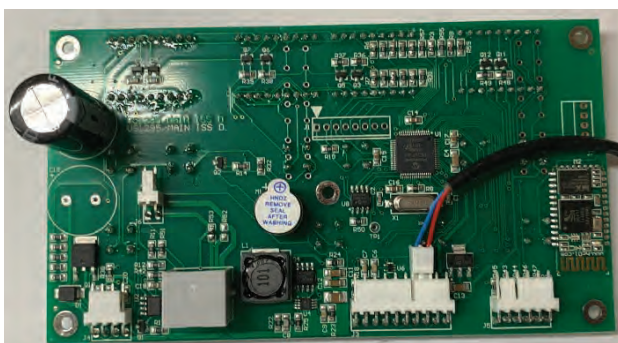
Tab: ISS D

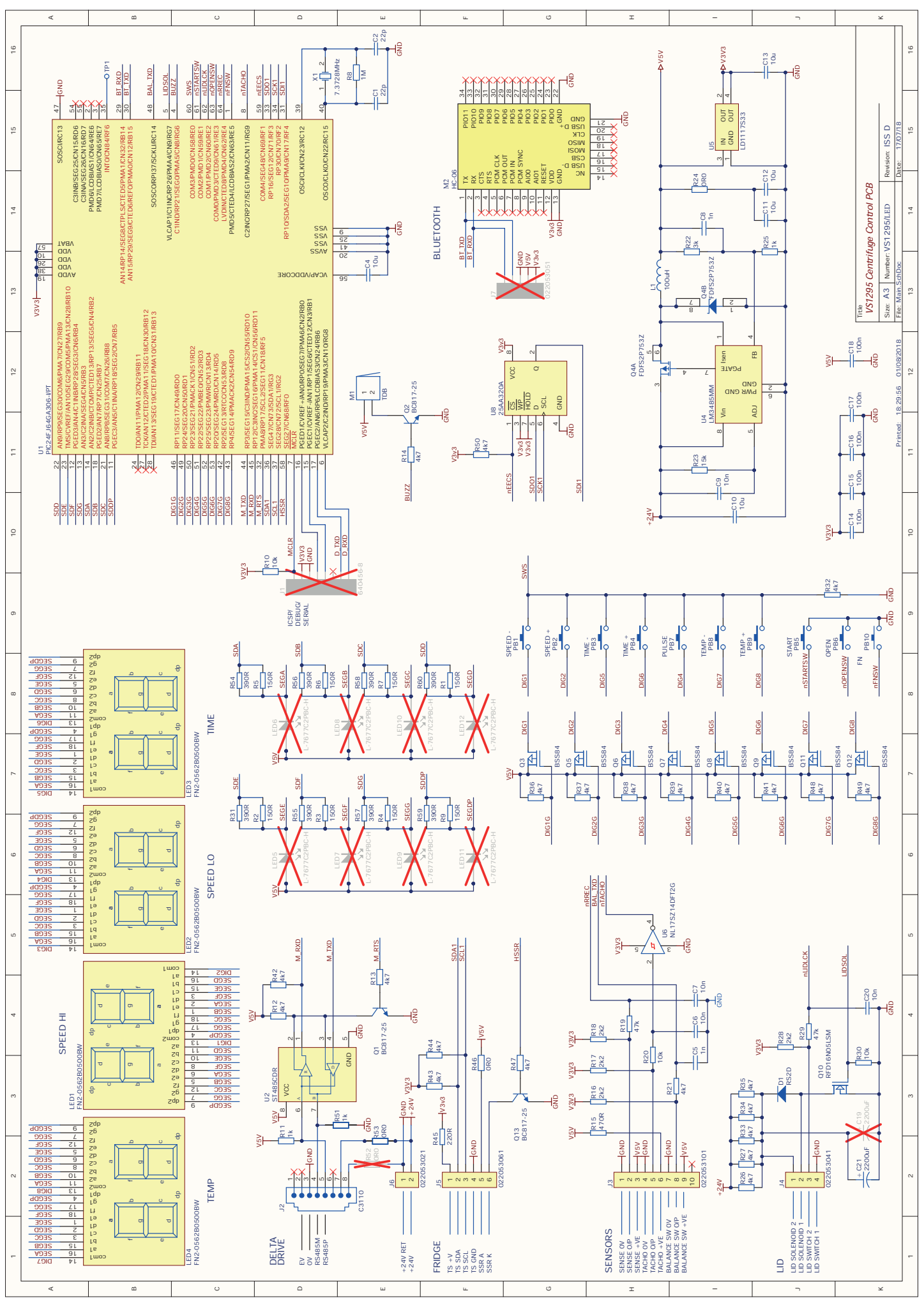
Tab: Date: 17/07/18

Connections. VS1295 Refrigerated LED



1. Lid (4 way)
2. RJ45 Ethernet connector
3. RRec,Tacho,Imbalance (10way)
4. Temperature (6 way).
5. Delta Inverter only (2 way)

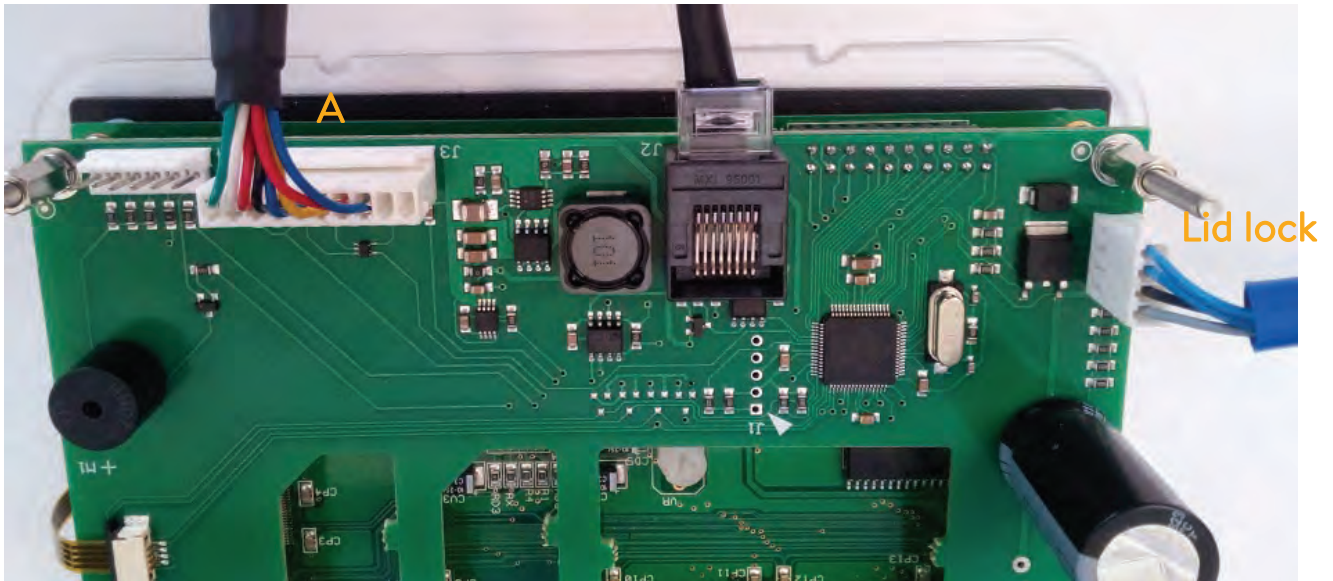




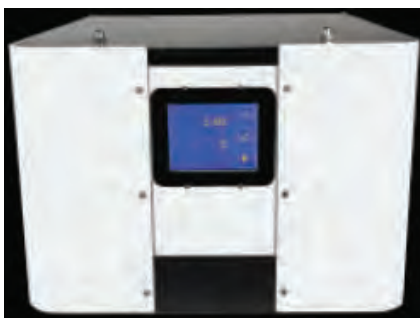
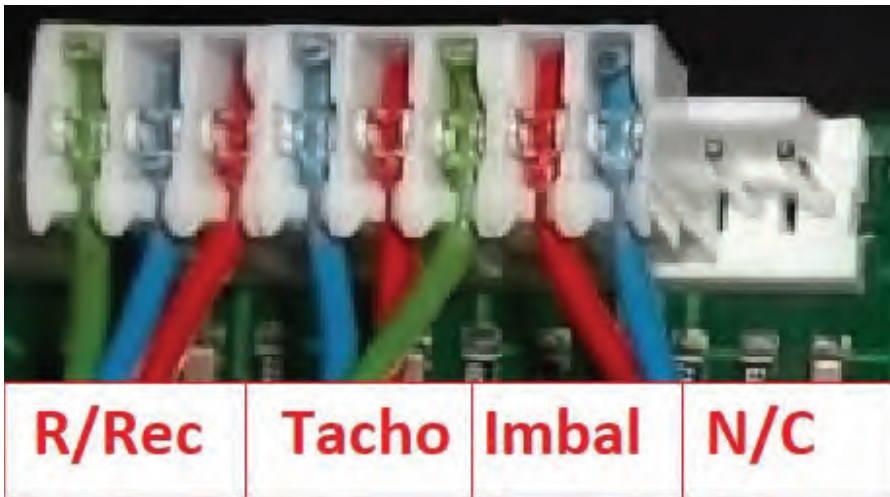
Connections VS1226 Ambient

15

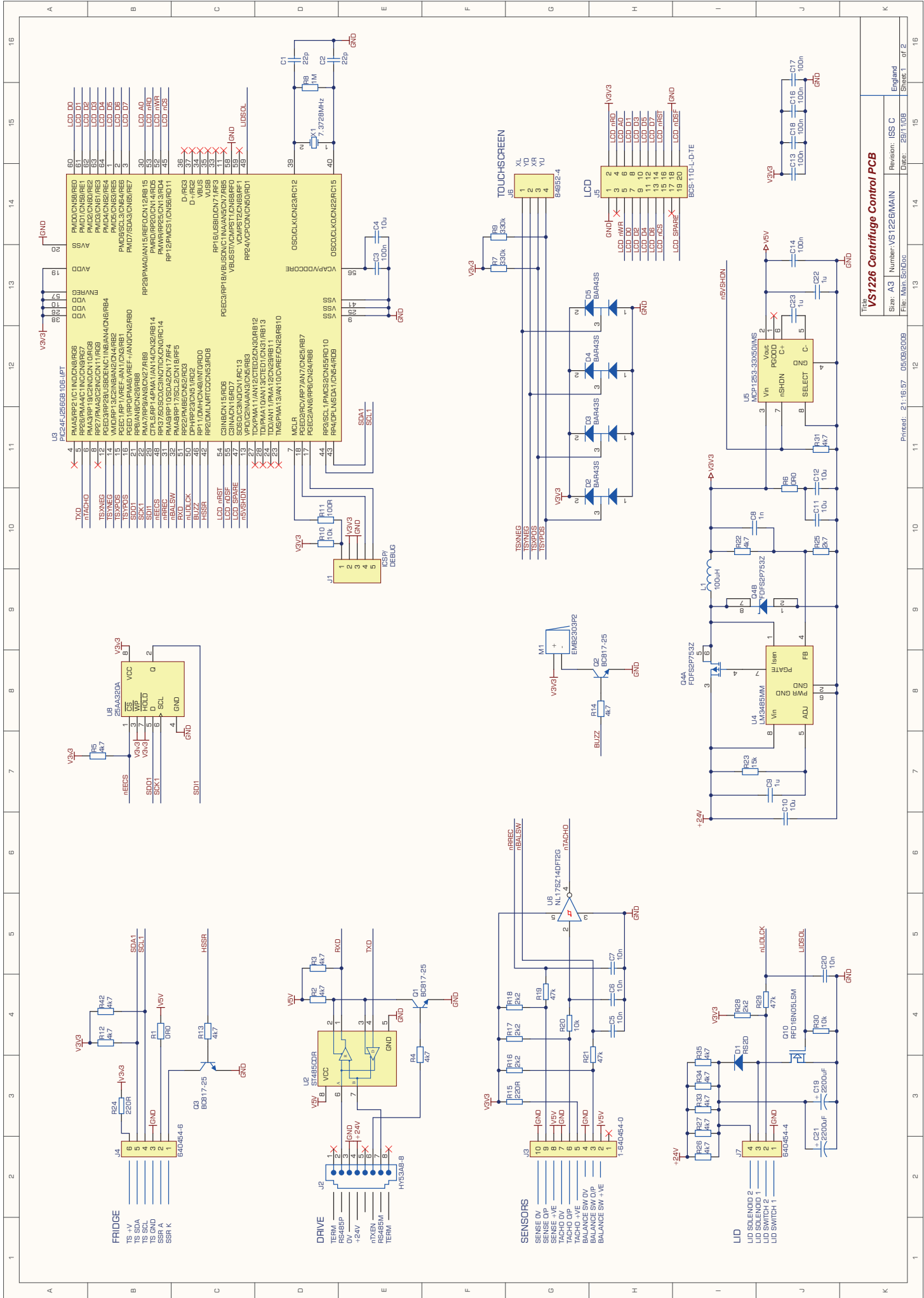
RJ45 Ethernet



A



Example

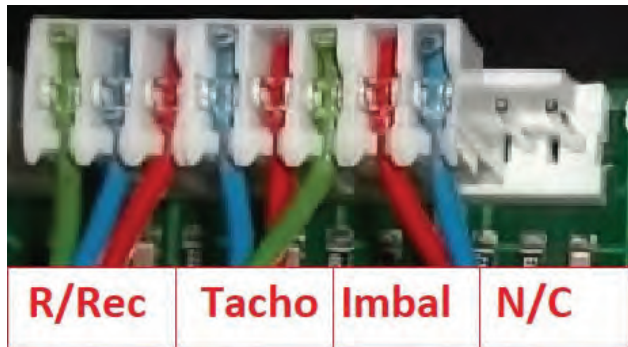
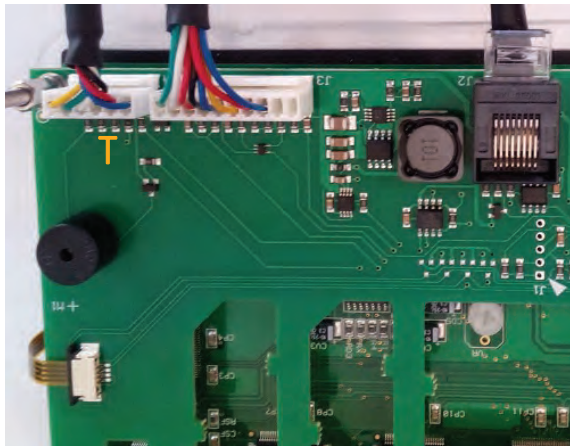
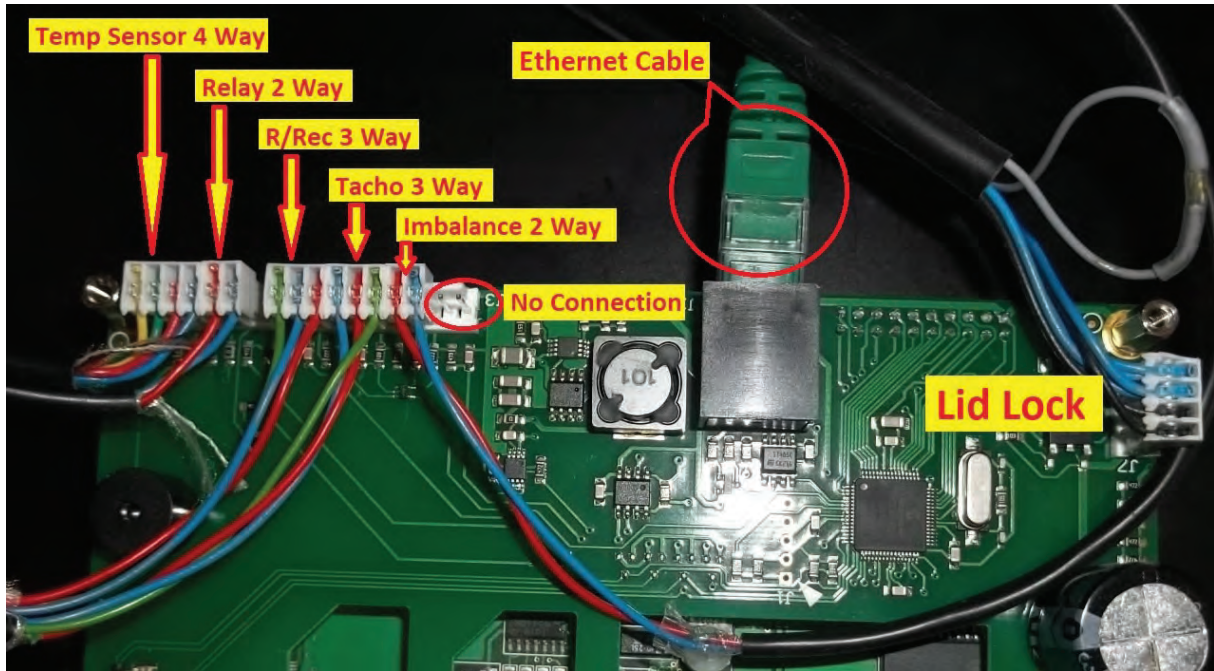


Title: VS1226 Centrifuge Control PCB

Sheet: A3	Number: VS1226/MAIN	Revision: ISS C	England
File: Main_SchDoc	Date: 29/11/08	Sheet: 1	of 2

Printed: 21:16:57 05/09/2009

Connections VS1226 Refrigerated



10 way connector

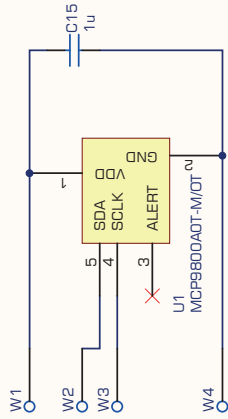
T temp sensor 1-4, relay. 5-6



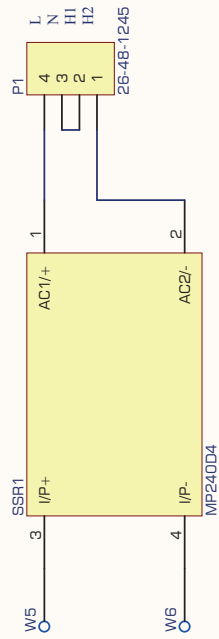
Examples



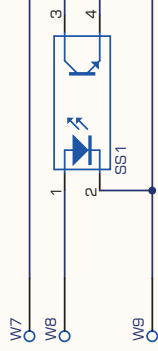
TEMP SENSOR PCB



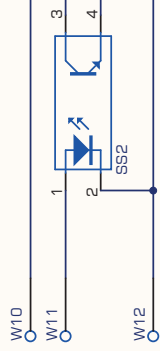
HEATER SSR PCB



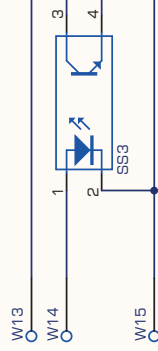
TACHO SENSOR PCB



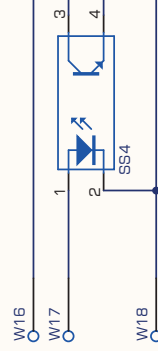
TACHO SENSOR PCB



TACHO SENSOR PCB



TACHO SENSOR PCB



See page 9 for full circuit diagram

Title: **VS1226 Centrifuge Aux PCBs**

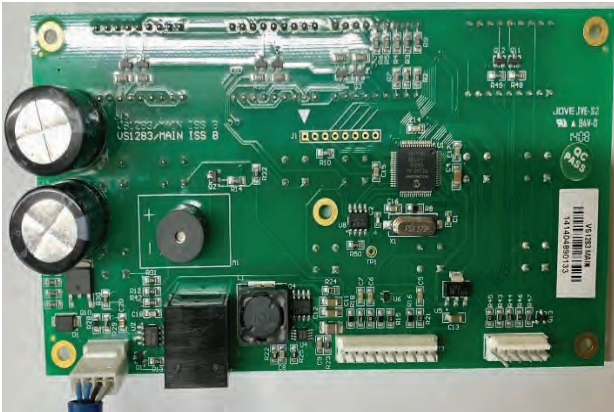
Size: A4 Number: VS1226/MAIN Revision: ISS C

File: AuxPCBS.SchDoc Date:

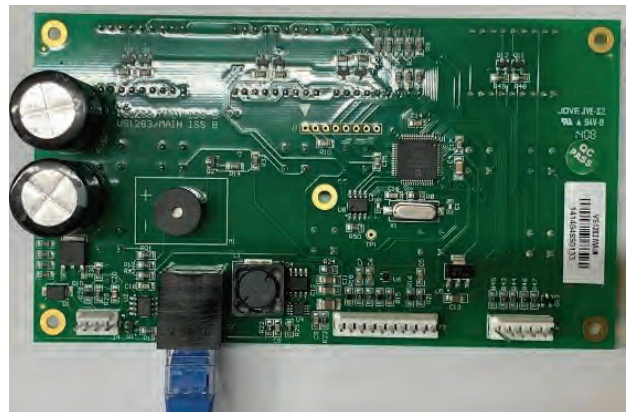
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Sheet 2 of 2

Connections. VS1283



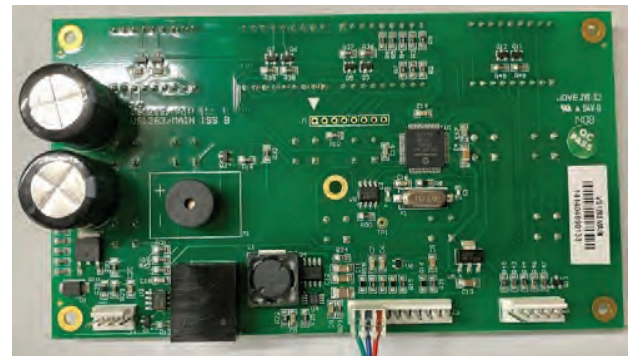
4 pin Lid lock connection



RJ45 Ethernet connection

10 pin connection
Pins.9,10 Not used

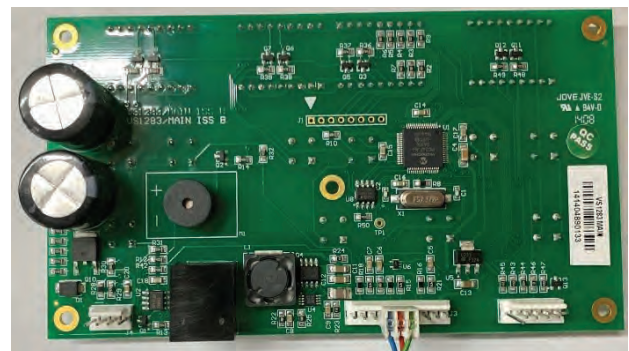
Pins.1,2,3



Rotor recognition

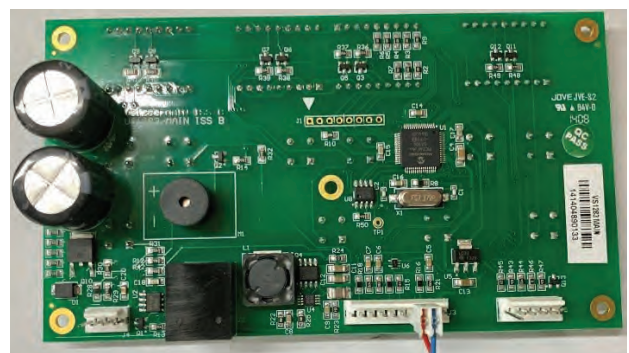


Pins.4,5,6

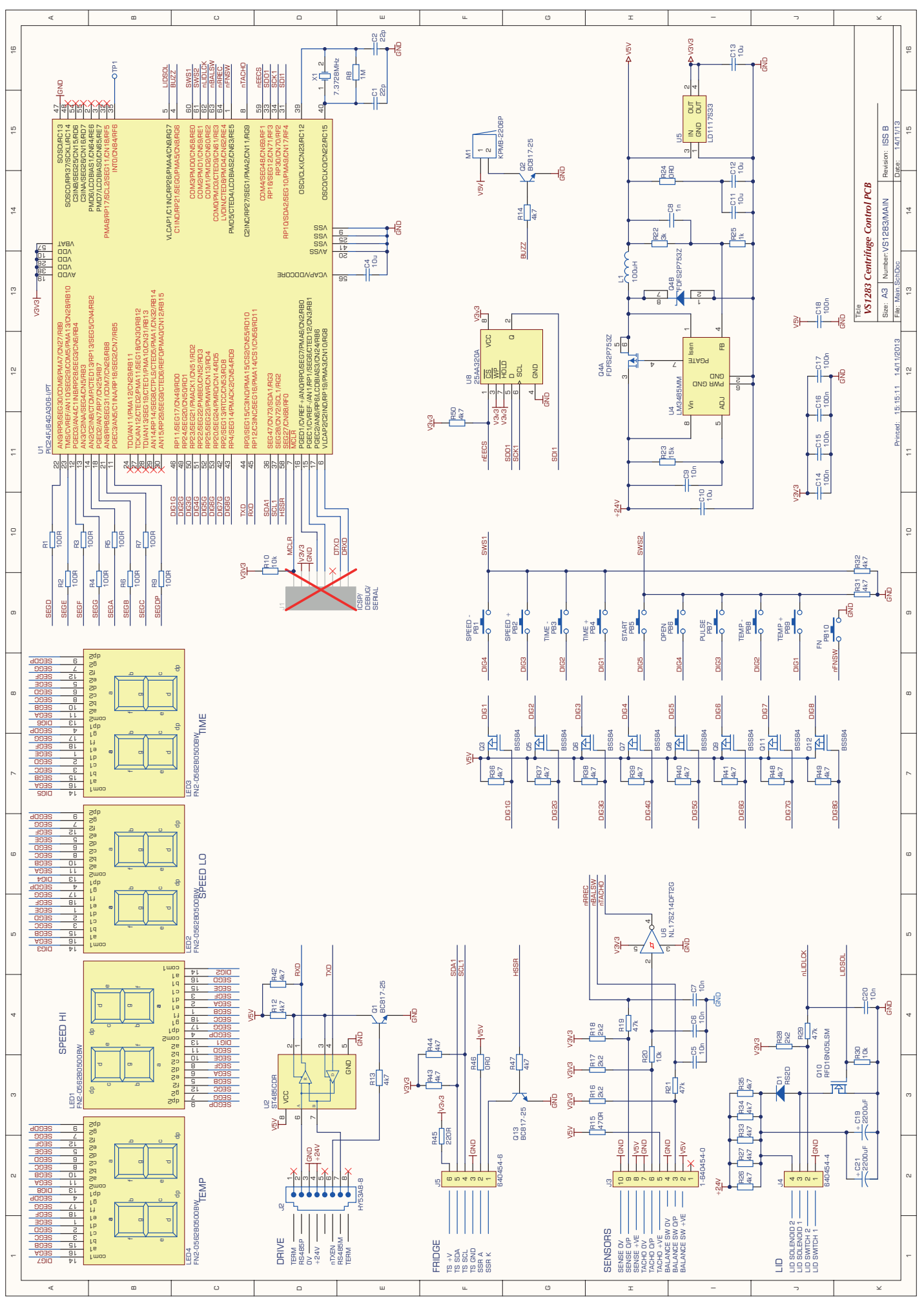


Tachometer

Pins.7,8



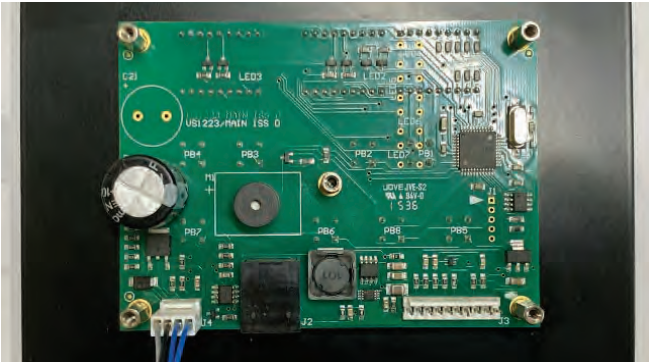
Imbalance



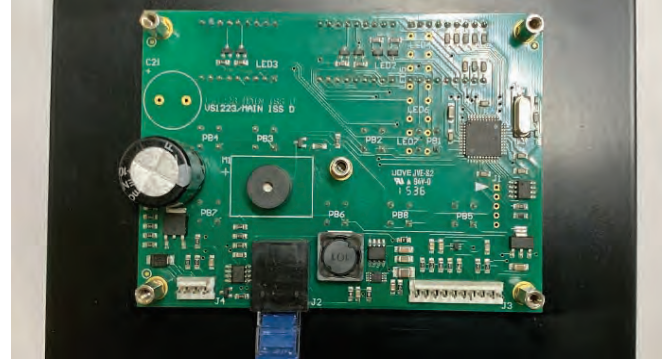
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Size: A3 **Number:** VS1283(MAIN) **Revision:** ISE B
File: Main_Sch.Dwg **Date:** 14.7.17.13

Printed: 15:15:11 14/7/2013

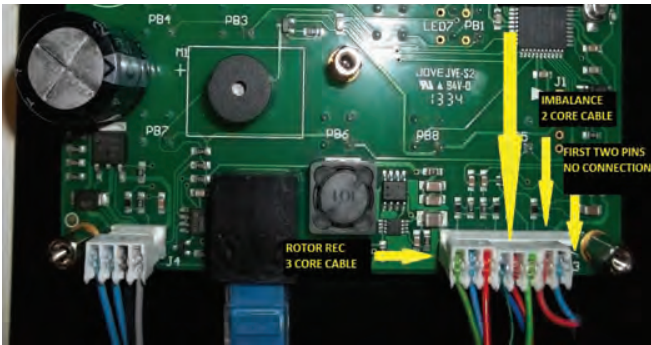
Connections. VS 1223. LED



4 Pin Lid lock connection



RJ 45 Ethernet connection



10 pin conn



Rotor recognition

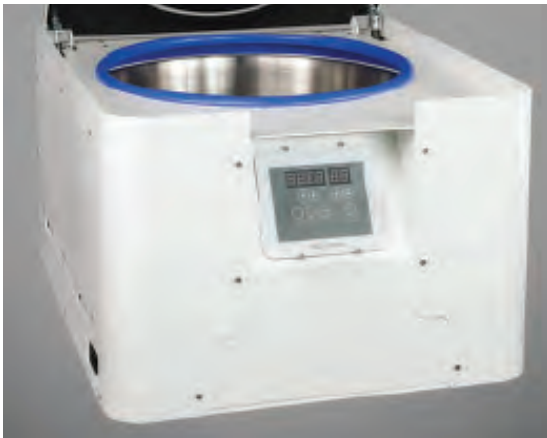


Tachometer

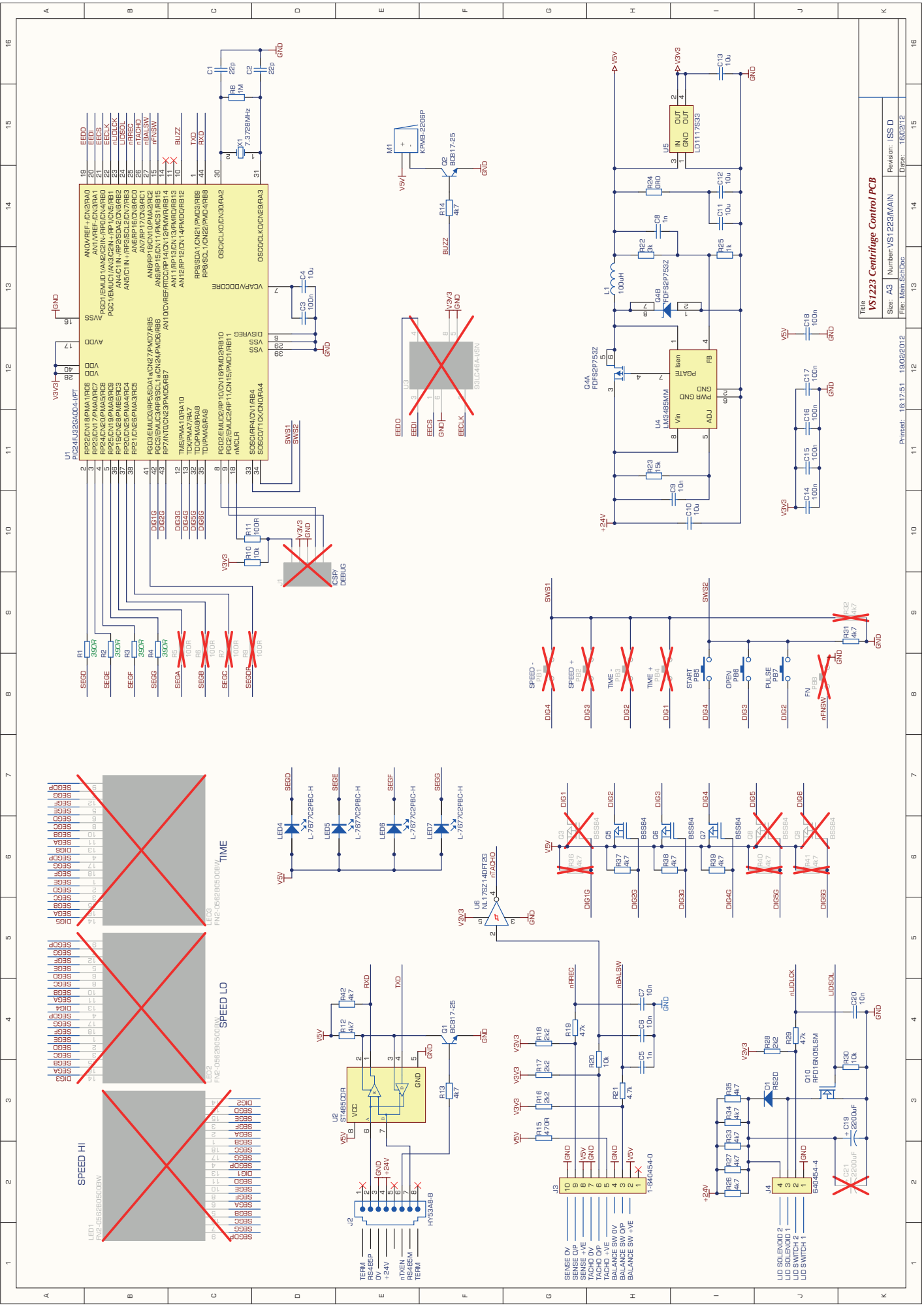


Imbalance

NOTE. Pins 9,10. NOT USED

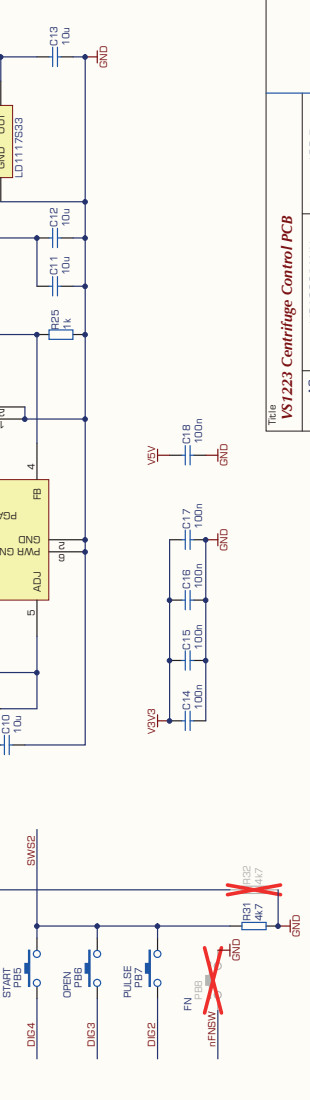
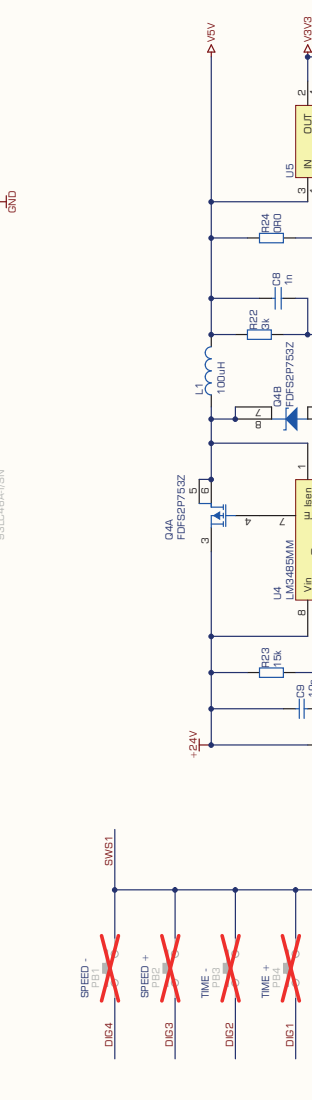
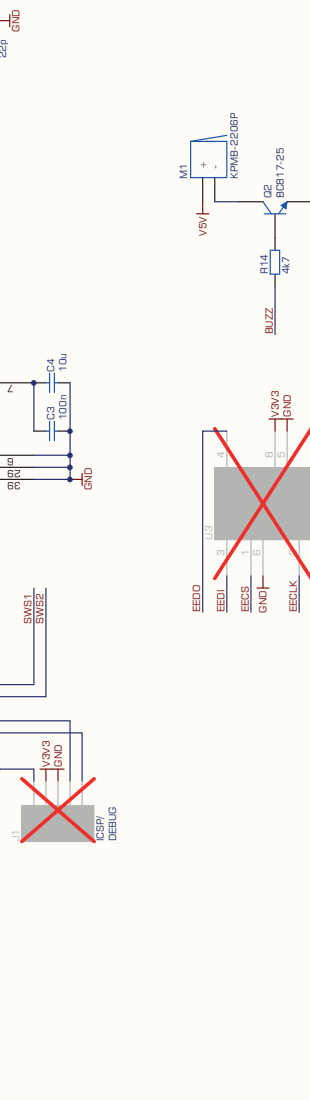
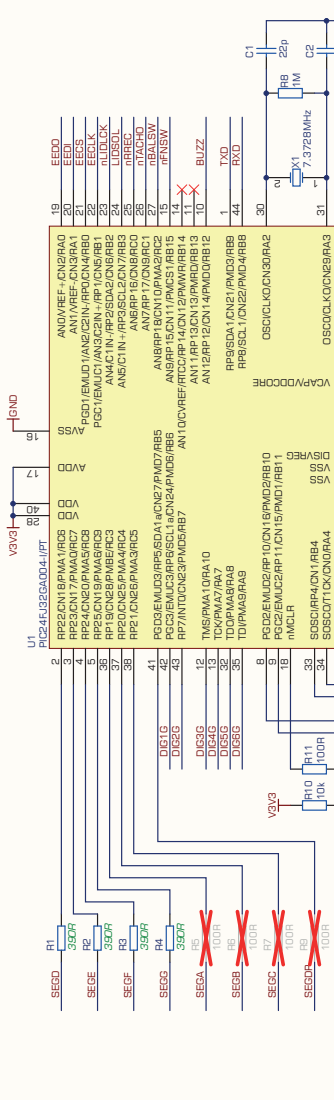
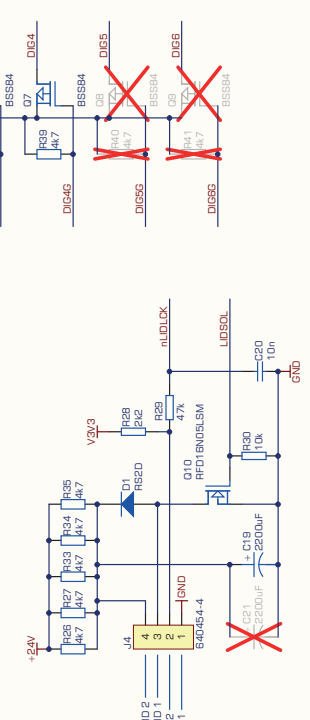
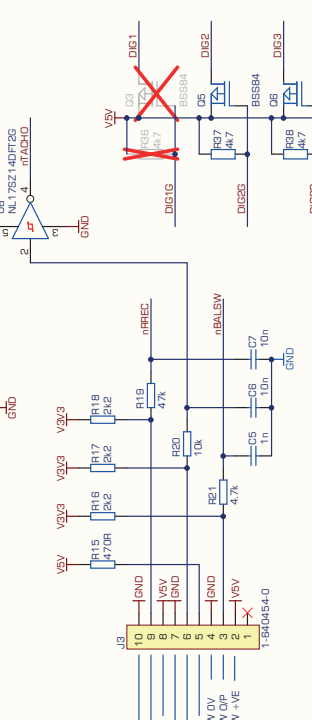
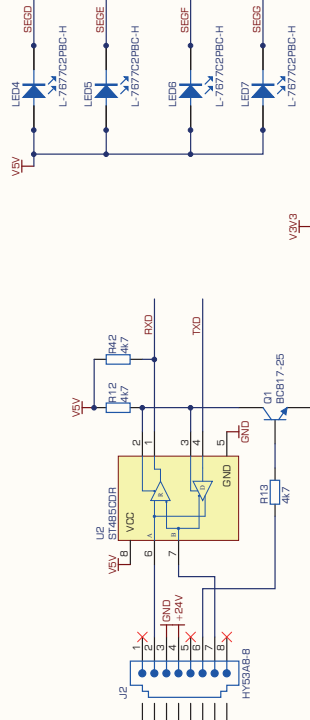
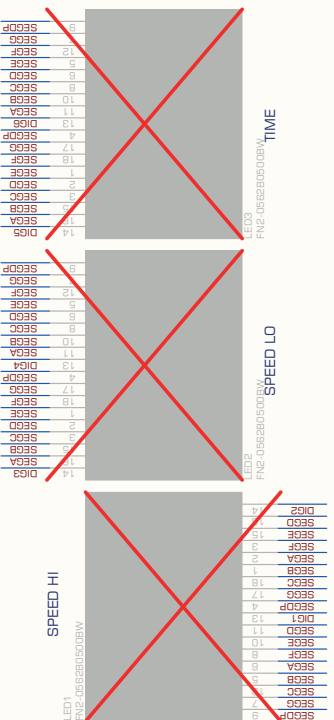


Example



Title		V51223 Centrifuge Control PCB	
Size:	A3	Number:	V51223(MAIN)
Revision:	ISE D	Date:	18/02/12
File:	Main_Sch.Doc		

Project:	18-17-51_19-02-2012
Sheet:	16



Project:	18-17-51_19-02-2012
Sheet:	16

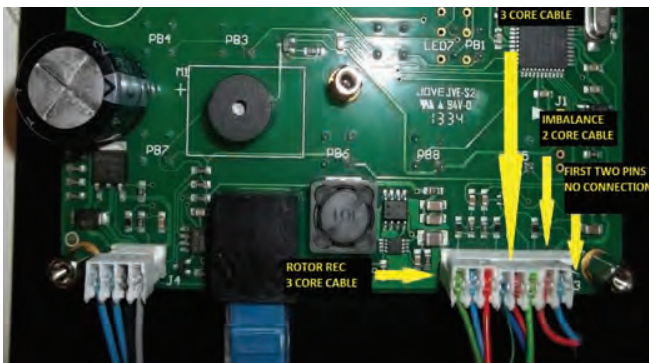
Connections. VS 1223. LID



4 Pin Lid lock connection



RJ 45 Ethernet connection



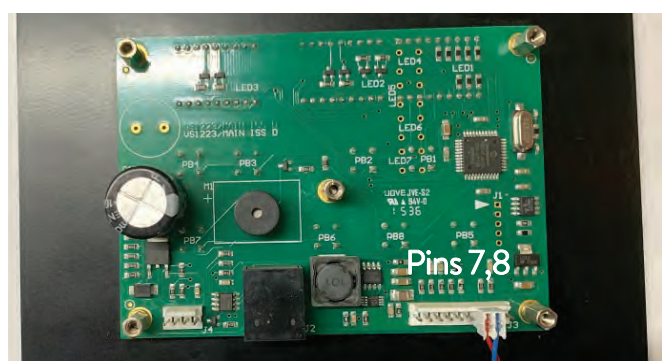
10 pin conn



Rotor recognition



Tachometer

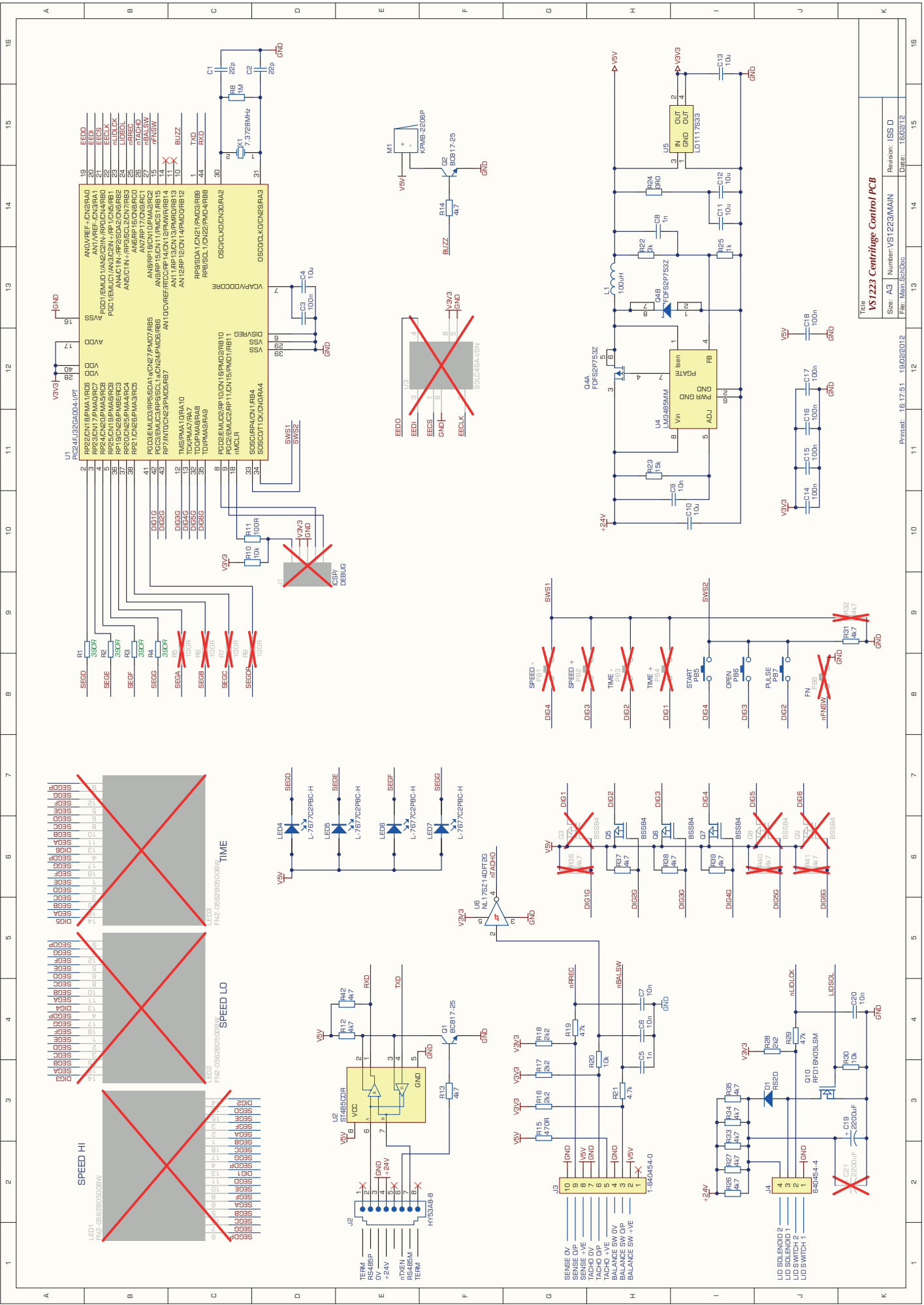


Imbalance

NOTE. Pins 9,10. NOT USED



Example



Title: **V51223 Centrifuge Control PCB**

Size: A3 Number: V51223(MAIN) Revision: ISE D

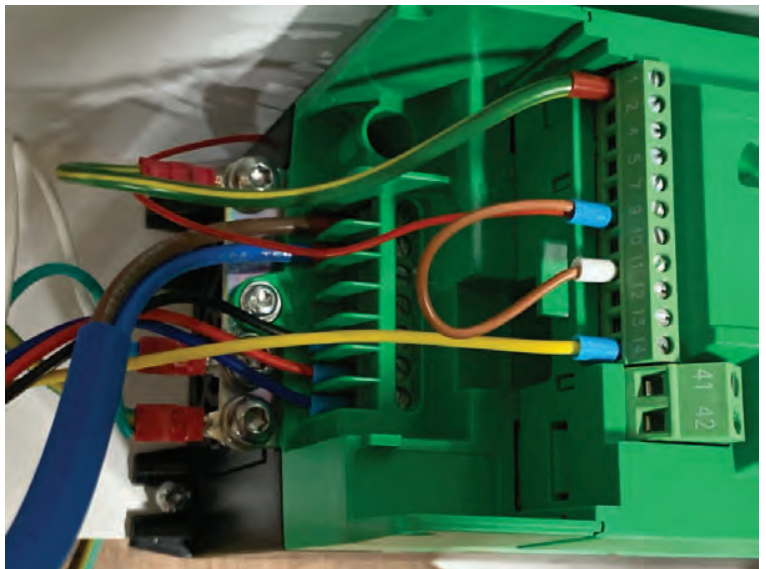
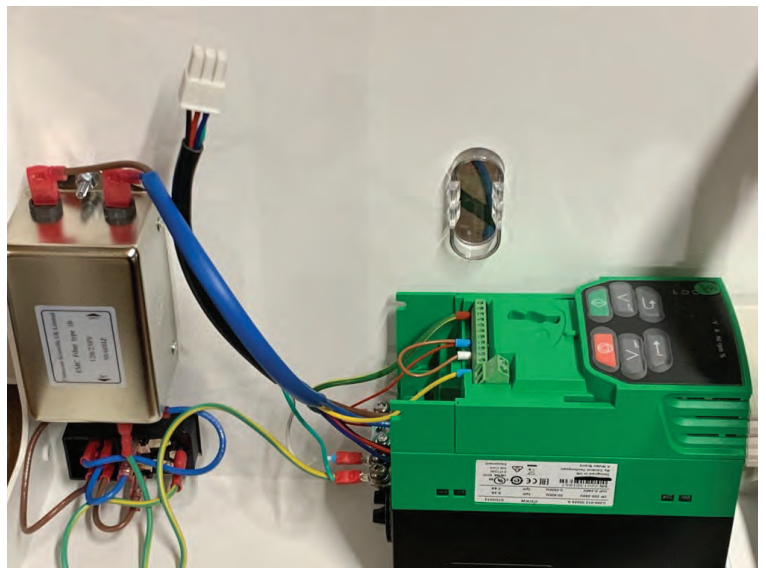
File: Main_Sch.Doc Date: 16/02/12

Printed: 16.17.51.19.02/2012

Page: 1 of 16

Connections. NIDEC C200 0.37 Kw inverter

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Nidec C200 Wiring 0.37Kw



Power Terminals

- L1: Brown (From Filter)
- L2/N: Blue (From Filter)
- +: N/C
- BR: N/C
- U: Black (From Motor)
- V: Red (From Motor)
- W: Blue (From Motor)

Earth Terminals

- D: Green (From Motor)
Green/Yellow to Chassis
- C: White (From Motor)
- A: Green/Yellow (Link to CT1)

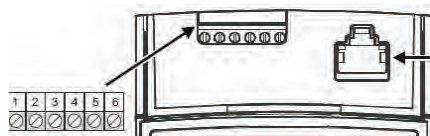


Control Terminals

- 1: Green/Yellow (Link to Earth Terminal A)
- 9: Brown Link to 11 & Red to Ethernet Cable (Later Models)
- 11: Brown Link to 9
- 14: Yellow (From Motor)
- 41: Brown To Motor Speed Control (Refrigerated Models Only)
- 42: Brown To Motor Speed Control (Refrigerated Models Only)

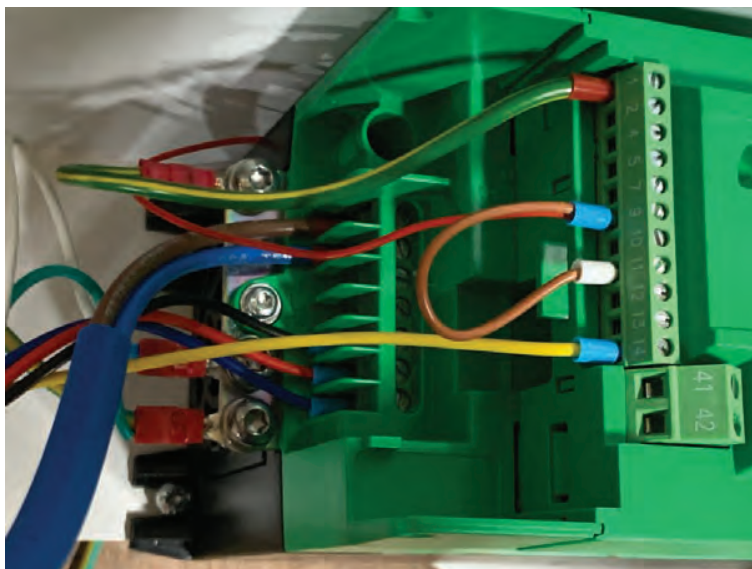
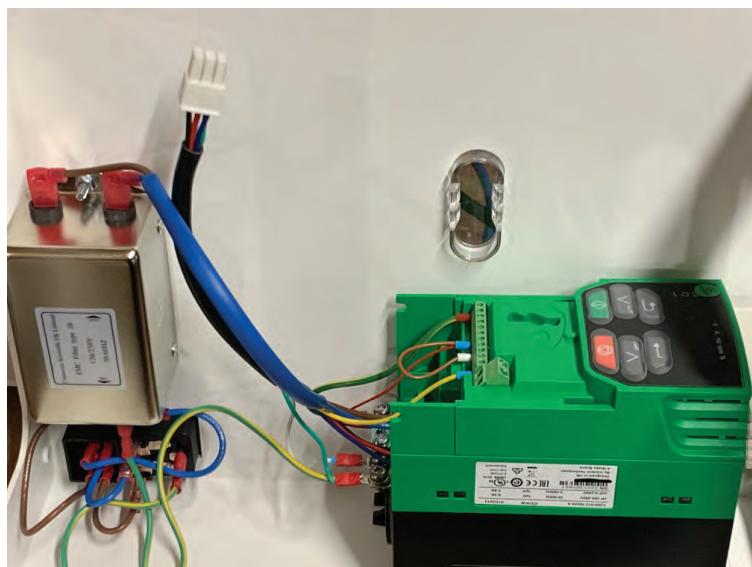
Communication Module Terminals

- 1: Green/Orange (To Ethernet Cable)
- 2: Blue (To Ethernet Cable)
- 3: Blue/Orange (To Ethernet Cable)

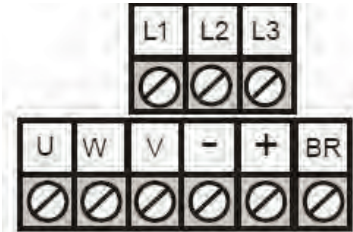


RS485: Ethernet Cable from Control PCB (Early Models)

Connections. NIDEC C200 1.5Kw inverter



Nidec C200 Wiring 1.5Kw



Power Terminals

- L1: Brown (From Filter)
- L2/N: Blue (From Filter)
- +: N/C
- BR: N/C
- U: Black (From Motor)
- V: Red (From Motor)
- W: Blue (From Motor)



Earth Terminals

- D: Green (From Motor)
Green/Yellow to Chassis
- C: White (From Motor)
- A: Green/Yellow (Link to CT1)

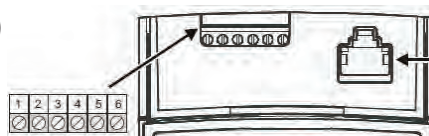


Control Terminals

- 1: Green/Yellow (Link to Earth Terminal A)
- 9: Brown Link to 11 & Red to Ethernet Cable (Later Models)
- 11: Brown Link to 9
- 14: Yellow (From Motor)
- 41: Brown To Motor Speed Control (Refrigerated Models Only)
- 42: Brown To Motor Speed Control (Refrigerated Models Only)

Communication Module Terminals

- 1: Green/Orange (To Ethernet Cable)
- 2: Blue (To Ethernet Cable)
- 3: Blue/Orange (To Ethernet Cable)



RS485: Ethernet Cable from Control PCB (Early Models)

Connections. Delta EL 0.4Kw inverter

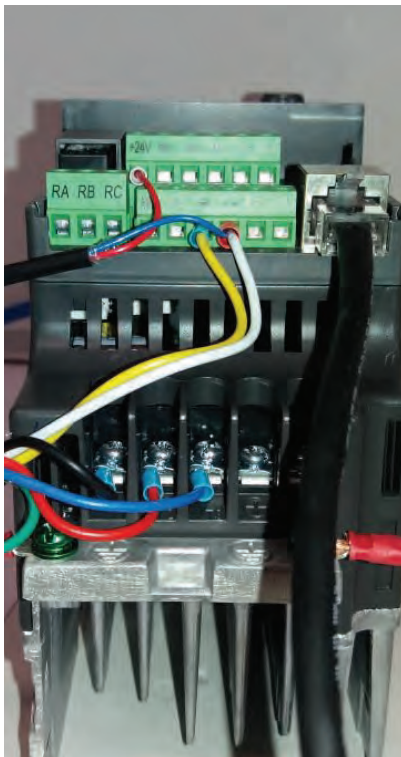


Mains power in

Green to Earth O

Blue to S/L2

Brown to R/L1



Power to Circuit board Red & Blue Goes to 2 pin header on Display Circuit board

Connections

Red to +24V

Yellow to M16

Top right Ethernet cable

Blue & White. Both to DCM

Motor power lines

Black to V/T1

Red to V/T2

Blue to V/T3

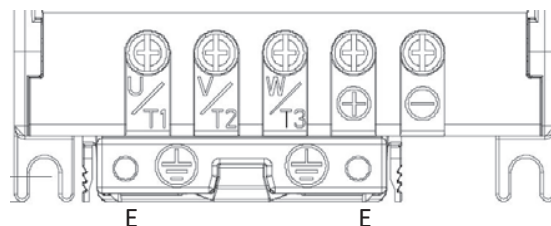
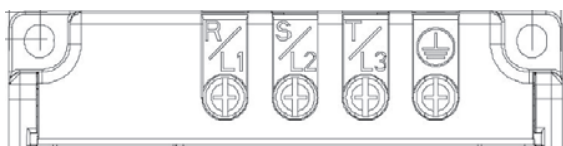
Brown wire from motor

NOTE. Important.

Bottom right. Earth connection to aluminium chassis (red tab)

Delta EL 0.4kw Wiring

Power Terminals



R/L1: Brown (From Filter)

S/L2: Blue (From Filter)

T/L3: N/C

⊕ : Green/Yellow to Chassis

U: Black (From Motor)

V: Red (From Motor)

W: Blue (From Motor)

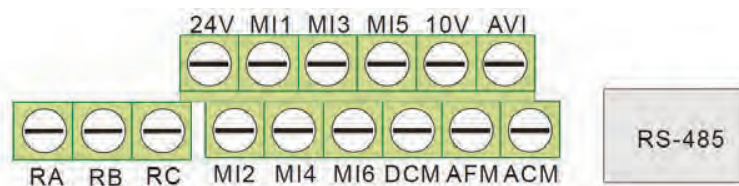
+ : N/C

- : N/C

E: Green (From Motor)

E: Green/Yellow to Chassis

Control Terminals



24V: Red (Two Core Cable) to Control Board

M16: Yellow (From Motor)

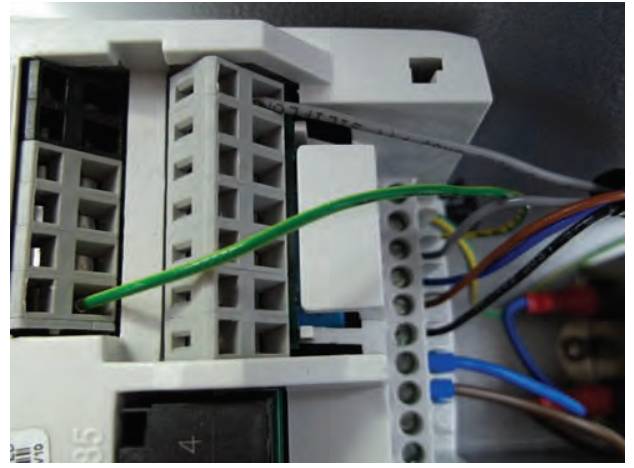
DCM: White (From Motor), Blue (Two Core Cable) to Control Board

RS-485: Ethernet Cable from Control PCB

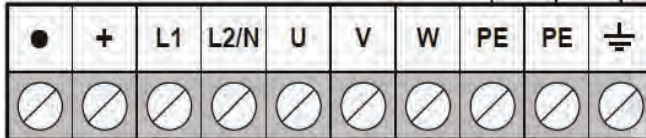
RA: Brown To Motor Speed Control (Refrigerated Models Only)

RC: Brown To Motor Speed Control (Refrigerated Models Only)

Connections. Emerson SK 0.37Kw inverter



Emerson Commander SK Wiring 0.37Kw



Power Terminals

Ambient Models

- L1: Brown (From Filter)
- L2/N: Blue (From Filter)
- U: Black (From Motor)
- V: Brown (From Motor)
- W: Blue (From Motor)
- PE: Grey (From Motor)
- PE: Green/Yellow (Link to T1)
- ⏏ Green/Yellow From Motor
Green/Yellow to Earth

Refrigerated Models

- Brown (From Filter)
- Blue (From Filter)
- Black (From Motor)
- Red (From Motor)
- Blue (From Motor)
- White (From Motor)
- Green/Yellow (Link to T1)
- Green/Yellow From Motor
- Green/Yellow to Earth



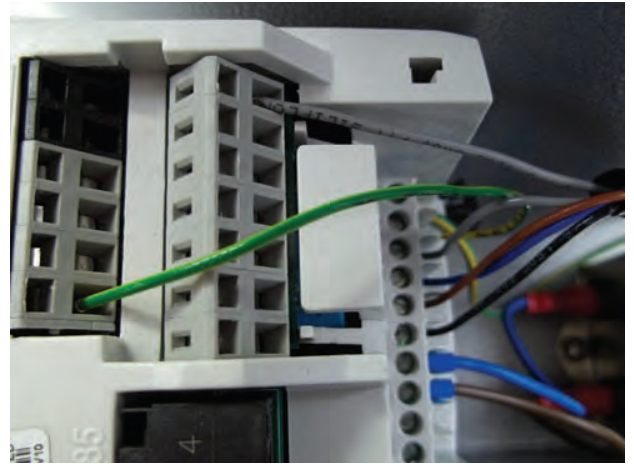
Control Terminals

- T1: Green/Yellow (Link to PE)
- Green/Yellow (Link to PE)
- B7: Grey (From Motor)
- Yellow (From Motor)

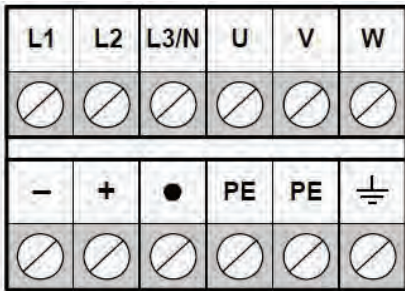


RS485: Ethernet Cable from Control PCB

Connections.Emerson SK 1.5Kw inverter



Emerson Commander SK Wiring 1.5Kw



Power Terminals

- L1: Brown (From Filter)
- L2/N: Blue (From Filter)
- U: Black (From Motor)
- V: Red (From Motor)
- W: Blue (From Motor)
- PE: White (From Motor)
- PE: Green/Yellow (Link to T1)
- ⏏: Green/Yellow From Motor
Green/Yellow to Earth



Control Terminals

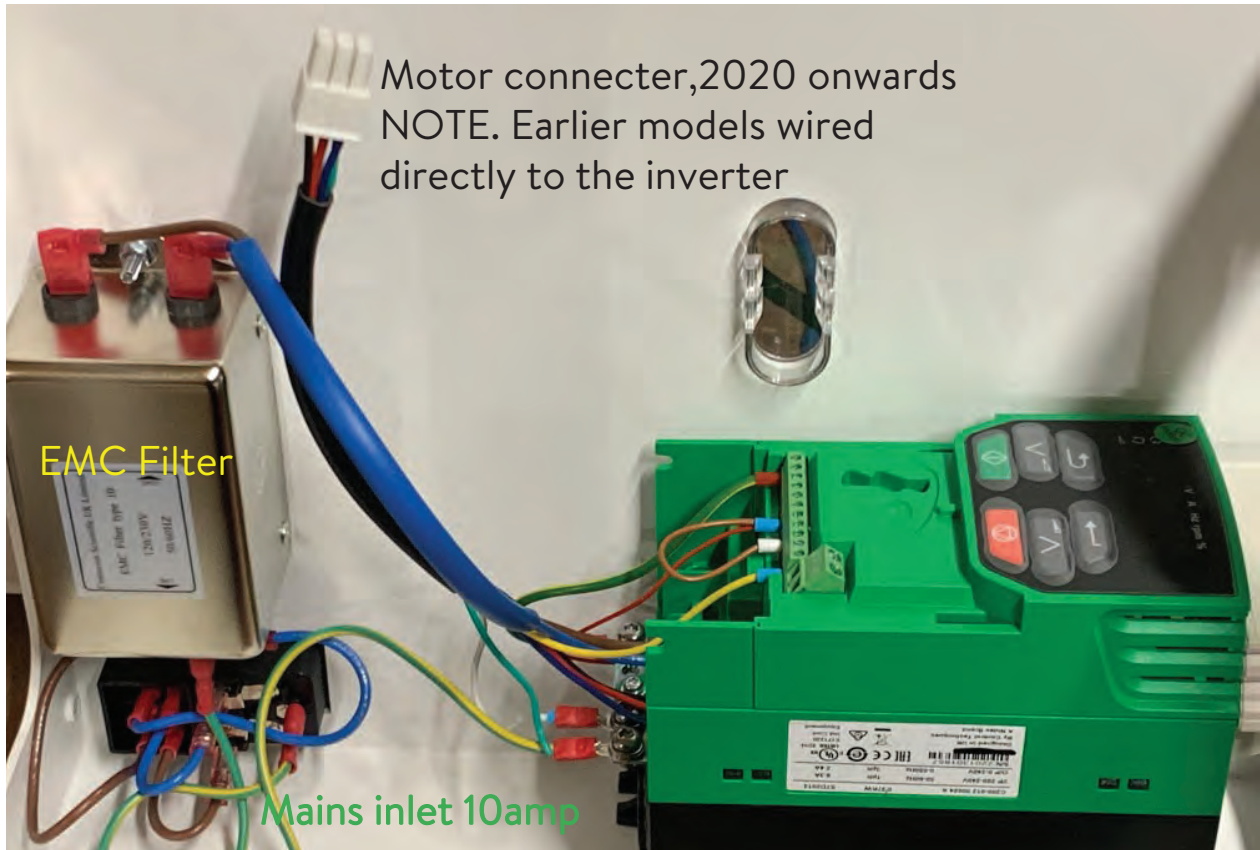
- T1: Green/Yellow (Link to PE)
- B7: Yellow (From Motor)

RS 485



RS485: Ethernet Cable from Control PCB

Connections. Mains, EMC filter, Inverter & motor

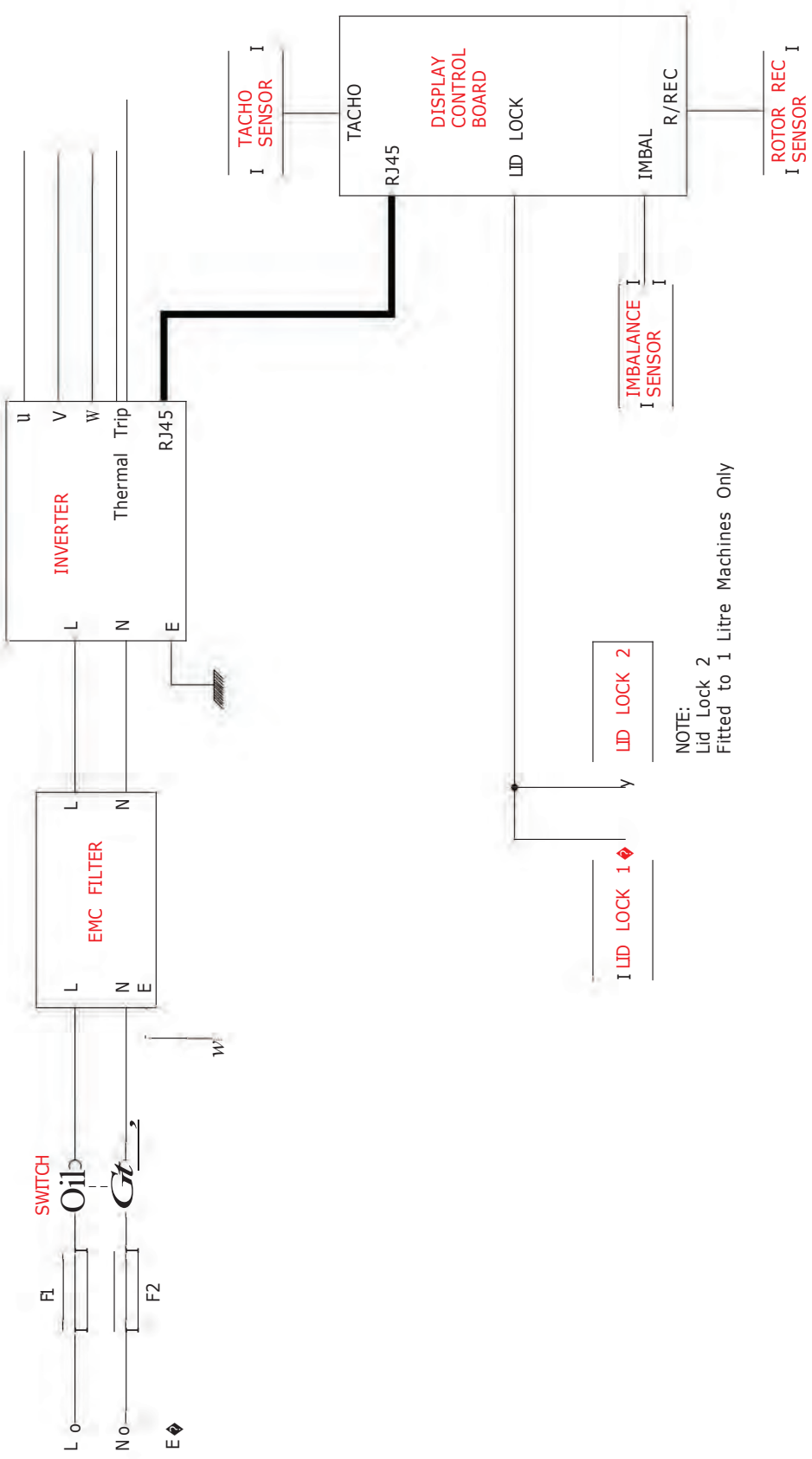


Part number. 1234567
10 amp EMC Filter

Part number. 1234567
Mains wiring pack
Please state model



Part number. 1234567
10 amp mains inlet
6.3TA fuses



I LID LOCK 1 ◆

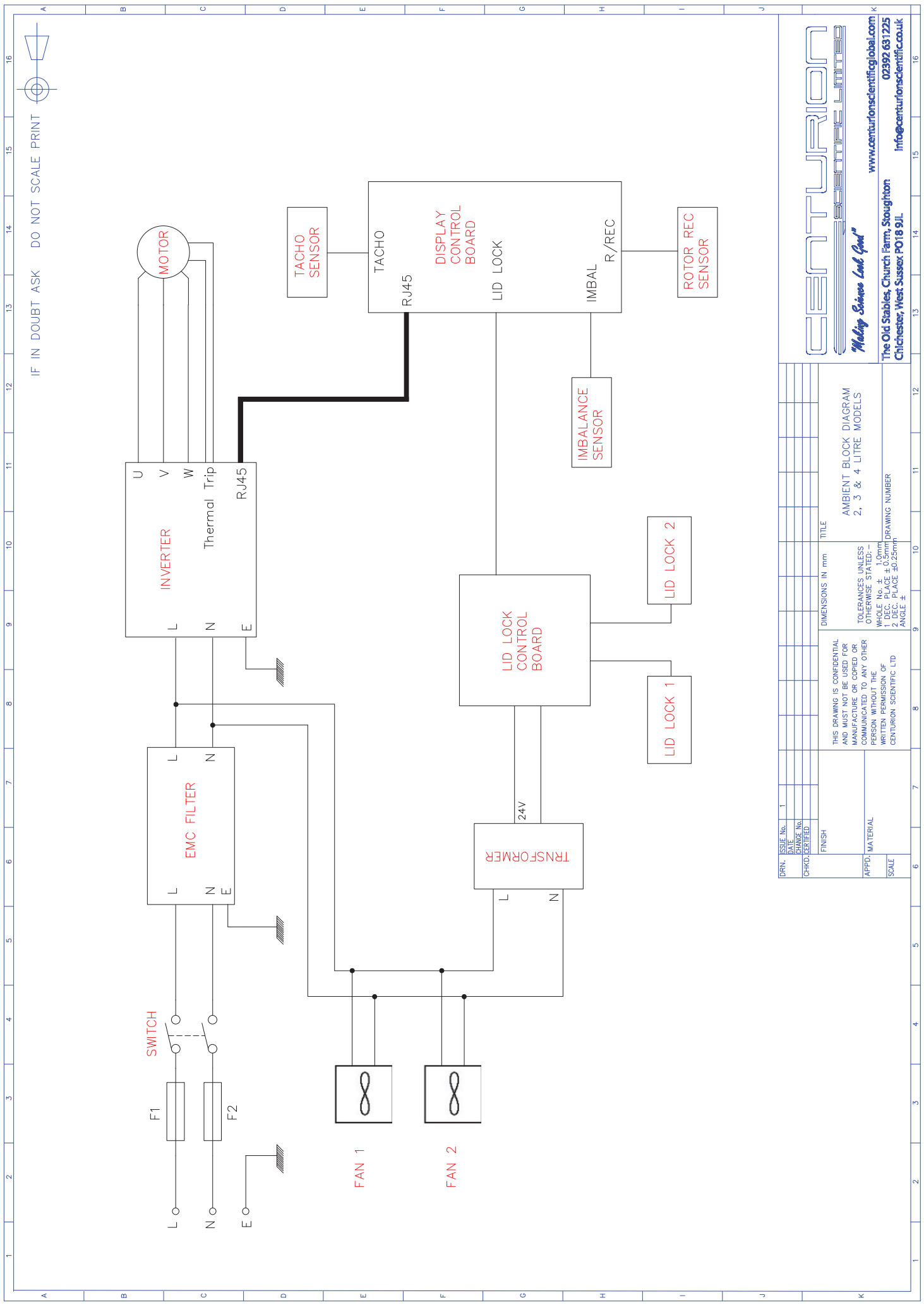
LID LOCK 2

NOTE:
Lid Lock 2
Fitted to 1 Litre Machines Only

ORIG. ISSUE NO.	DATE	CHANGE NO.	TITLE
			AMBIENT BLOCK DIAGRAM

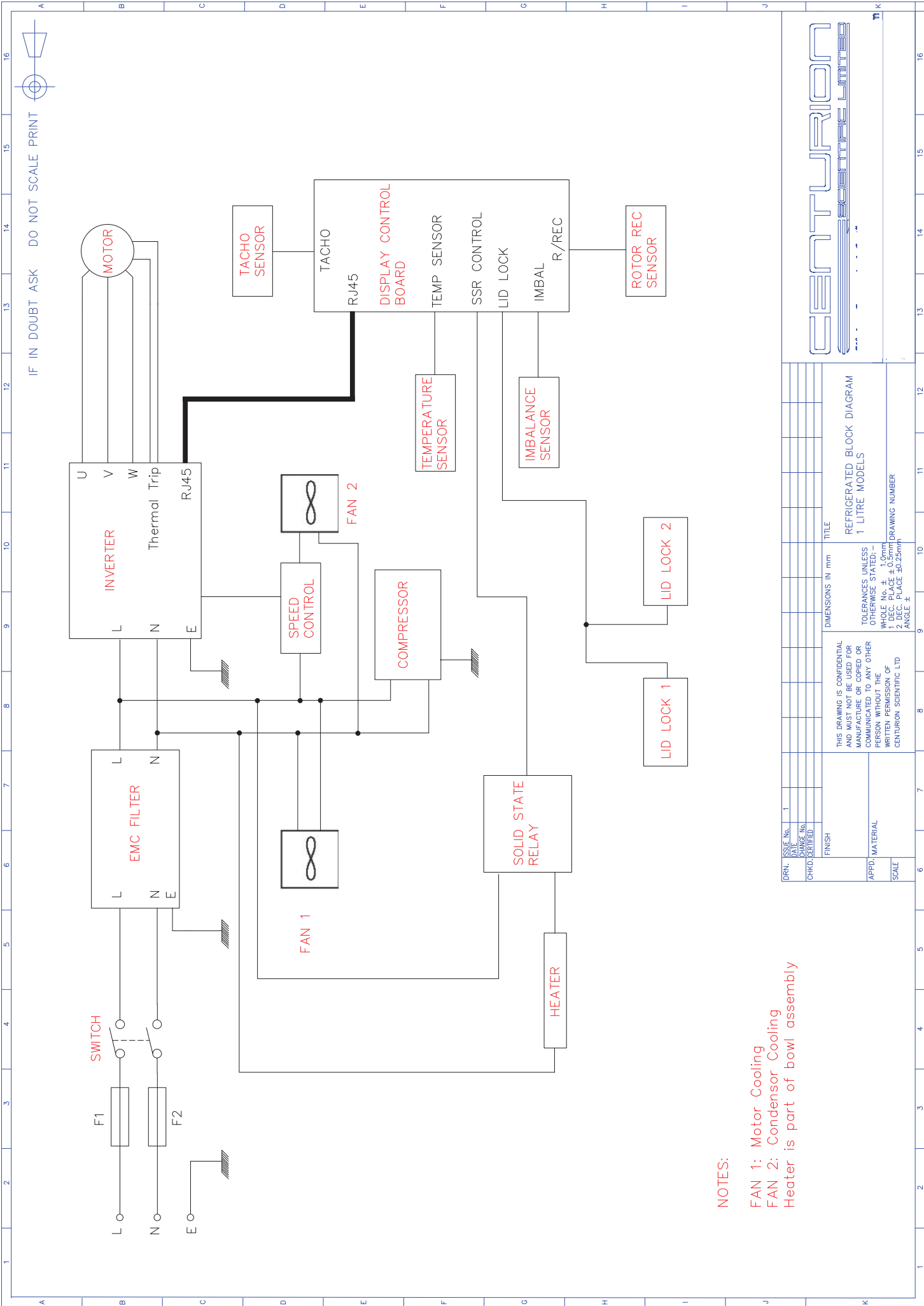
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 APPD. MATERIAL: TOLERANCES UNLESS OTHERWISE STATED - WHOLE NO. ± 1.0mm, 1 DEC. PLACE ± 0.5mm, 2 DEC. PLACE ± 0.25mm, ANGLE ±
 SCALE: DRAWING NUMBER

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 oilm@centurion1.co.uk
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	SCALE	TITLE AMBIENT BLOCK DIAGRAM 2, 3 & 4 LITRE MODELS																	



DRN.	ISSUE No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DATE																	
CHANGE No.																	
CHKD.	CERTIFIED																
FINISH		DIMENSIONS IN mm															
APPD. MATERIAL		REFRIGERATED BLOCK DIAGRAM 1 LITRE MODELS															
SCALE		TOLERANCES UNLESS OTHERWISE STATED:— WHOLE No. \pm 1.0mm 1 DEC. PLACE \pm 0.5mm 2 DEC. PLACE \pm 0.25mm ANGLE \pm															
TITLE		CENTURION SCIENTIFIC LTD															



NOTES:

- FAN 1: Motor Cooling
- FAN 2: Condensor Cooling
- Heater is part of bowl assembly

Service parts Lists

Year 2017 onward

Ambient & Refrigerated



Service parts. Ambient, yearly and 5th

Parts sets Pricing

Ambient Models

PrO-	Yearly parts for micro Centrifuge
Care.SP91	5th year parts for micro Centrifuge
PrO-	
PrO-	Yearly parts for small Centrifuge
Care.SP71	5th year parts for small Centrifuge
PrO-	
PrO-	Yearly parts for medium Centrifuge
Care.SP51	5th year parts for medium Centrifuge
PrO-	
PRO-Care.SP41	Yearly parts for 2L Centrifuge
PrO-Care.SP45	5th year parts for 2L Centrifuge
PrO-Care.SP31	Yearly parts for 3L Centrifuge
PrO-Care.SP35	5th year parts for 3L Centrifuge
PrO-Care.SPF1	Yearly parts for Floor Centrifuge
PrO-Care.SPF5	5th year parts for Floor Centrifuge

Yearly parts as below plus Full Instructions of fitment, adjustment & cleaning

Air spray & Grease spray

Bowl Seal

Lid under Seal

Fuses

5th year parts also include:

Anti vibration mounts, motor boot, overlay and lid springs.

NOTE: If your centrifuge is over 7 years old or old, parts may not be available. We do offer a discount for a replacement centrifuge and we dispose of your old unit as per the Wee directive.

Service parts.Refrigerated, yearly and 5th

Parts sets Pricing

Refrigerated Models

PrO-Care.SPR91 **Yearly parts for micro Centrifuge**

PrO-Care.SPR95 **5th year parts for micro Centrifuge**

PrO-Care.SPR71 **Yearly parts for small Centrifuge**

PrO-Care.SPR75 **5th year parts for small Centrifuge**

PrO-Care.SPR51 **Yearly parts for medium Centrifuge**

PrO-Care.SPR55 **5th year parts for medium Centrifuge**

PrO-Care.SPR41 Yearly parts for 2L Centrifuge

PrO-Care.SPR45 5th year parts for 2L Centrifuge

PrO-Care.SPR31 Yearly parts for 3L Centrifuge

PrO-Care.SPR35 5th year parts for 3L Centrifuge

PrO-Care.SPRF1 Yearly parts for Floor Centrifuge

PrO-Care.SPRF5 5th year parts for Floor Centrifuge

Yearly parts as below plus Full Instructions of fitment, adjustment & cleaning

Air spray & Grease sparay

Bowl Seal

Under Seal

Fuses

5th year parts also include:

Anti vibration mounts, motor boot, overlay , lid springs & sensor

NOTE: If your centrifuge is over 7 years old or old, parts may not be available. We do offer a discount for a replacement centrifuge and we dispose of your old unit as per the Wee directive.

Service parts. Rotor seals, yearly

Parts sets Pricing

Rotor Seals

PrO-Care	Yearly Replacement Parts	All seals - both inner & outer
----------	--------------------------	--------------------------------

RSM1	For Rotors BRK5424, 5436, 5448,5494
------	-------------------------------------

RSM2	For Rotors BRK5463 & 5464
------	---------------------------

RSM3	For Rotors BRK5648, 5649, 5698, 5248, 5249 &5298
------	--

RSF1	For Rotors BRK5404, 5407, 5408, 5204, 5202
------	--

RSF2	For Rotors BRK5406, 5412,5206, 5212
------	-------------------------------------

RSF3	For Rotors BRK5308, 5324, 5100, 5208, 5224 & 5210
------	---

PrO-Care	Yearly Replacement Seals	For Sealed Lids
----------	--------------------------	-----------------

RSSO1	For Rotors BRK1000, (B5250 bucket) & BRK5505
-------	--

RSSO2	For Rotor BRK3000, (B2000, 3000 & 4000 bucket)
-------	--

PrO-Care	1 Year Pack	Important - Replace every 2 months
----------	-------------	------------------------------------

8011	For Rotor BRK501. Rim gasket pack of 6
------	--

PrO-Care	Yearly Replacement Seals	All seals - both inner & outer
----------	--------------------------	--------------------------------

RSCW	For Rotor 5450. Inner & outer seals. Both tube sizes
------	--

RSCYT	For Rotors 4420, 4430, 4460. Inner & outer seals
-------	--

NOTE: If your rotor is over 7 years old, it should be replaced.

We do offer a discount for replacement rotors and we offer a disposal service for your old rotor.

Parts lists All New and older models

Year 2000 onward

Ambient & Refrigerated



Service parts. Ambient, yearly and 5th

Parts sets Pricing

Ambient Models

PrO-Care.SP91 Yearly parts for micro Centrifuge

PrO-Care.SP95 5th year parts for micro Centrifuge

PrO-Care.SP71 Yearly parts for small Centrifuge

PrO-Care.SP75 5th year parts for small Centrifuge

PrO-Care.SP51 Yearly parts for medium Centrifuge

PrO-Care.SP55 5th year parts for medium Centrifuge

PRO-Care.SP41 Yearly parts for 2L Centrifuge

PrO-Care.SP45 5th year parts for 2L Centrifuge

PrO-Care.SP31 Yearly parts for 3L Centrifuge

PrO-Care.SP35 5th year parts for 3L Centrifuge

PrO-Care.SPF1 Yearly parts for Floor Centrifuge

PrO-Care.SPF5 5th year parts for Floor Centrifuge

Yearly parts as below plus Full Instructions of fitment, adjustment & cleaning

Filter

Bowl Seal

Lid under Seal

Fuses

5th year parts also include:

Anti vibration mounts, motor boot, overlay and lid springs.

NOTE: If your centrifuge is over 7 years old or old, parts may not be available. We do offer a discount for a replacement centrifuge and we dispose of your old unit as per the Wee directive.

Service parts.Refrigerated, yearly and 5th

Parts sets Pricing

Refrigerated Models

PrO-Care.SPR91 Yearly parts for micro Centrifuge

PrO-Care.SPR95 5th year parts for micro Centrifuge

PrO-Care.SPR71 Yearly parts for small Centrifuge

PrO-Care.SPR75 5th year parts for small Centrifuge

PrO-Care.SPR51 Yearly parts for medium Centrifuge

PrO-Care.SPR55 5th year parts for medium Centrifuge

PRO-Care.SPR41 Yearly parts for 2L Centrifuge

PrO-Care.SPR45 5th year parts for 2L Centrifuge

PrO-Care.SPR31 Yearly parts for 3L Centrifuge

PrO-Care.SPR35 5th year parts for 3L Centrifuge

PrO-Care.SPRF1 Yearly parts for Floor Centrifuge

PrO-Care.SPRF5 5th year parts for Floor Centrifuge

Yearly parts as below plus Full Instructions of fitment, adjustment & cleaning

Filter

Bowl Seal

Under Seal

Fuses

5th year parts also include:

Anti vibration mounts, motor boot, overlay , lid springs & sensor

NOTE: If your centrifuge is over 7 years old or old, parts may not be available. We do offer a discount for a replacement centrifuge and we dispose of your old unit as per the Wee directive.

Service parts. Rotor seals, yearly

Parts sets Pricing

Rotor Seals

PrO-Care	Yearly Replacement Parts	All seals - both inner & outer
----------	--------------------------	--------------------------------

RSM1	For Rotors BRK5424, 5436, 5448, 5494
------	--------------------------------------

RSM2	For Rotors BRK5463 & 5464
------	---------------------------

RSM3	For Rotors BRK5648, 5649, 5698, 5248, 5249 & 5298
------	---

RSF1	For Rotors BRK5404, 5407, 5408, 5204, 5202
------	--

RSF2	For Rotors BRK5406, 5412, 5206, 5212
------	--------------------------------------

RSF3	For Rotors BRK5308, 5324, 5100, 5208, 5224 & 5210
------	---

PrO-Care	Yearly Replacement Seals	For Sealed Lids
----------	--------------------------	-----------------

RSSO1	For Rotors BRK1000, (B5250 bucket) & BRK5505
-------	--

RSSO2	For Rotor BRK3000, (B2000, 3000 & 4000 bucket)
-------	--

PrO-Care	1 Year Pack	Important - Replace every 2 months
----------	-------------	------------------------------------

8011	For Rotor BRK501. Rim gasket pack of 6
------	--

PrO-Care	Yearly Replacement Seals	All seals - both inner & outer
----------	--------------------------	--------------------------------

RSCW	For Rotor 5450. Inner & outer seals. Both tube sizes
------	--

RSCYT	For Rotors 4420, 4430, 4460. Inner & outer seals
-------	--

NOTE: If your rotor is over 7 years old, it should be replaced.

We do offer a discount for replacement rotors and we offer a disposal service for your old rotor.

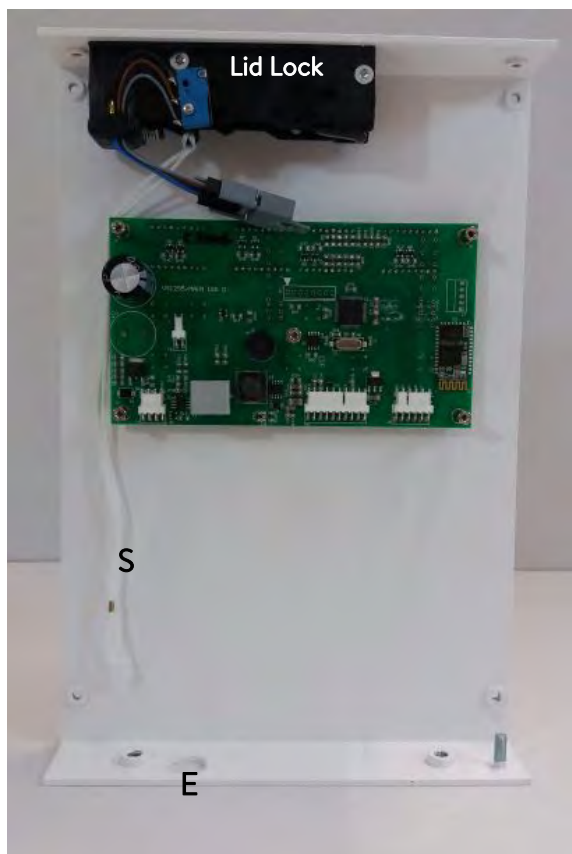
Front panel. Spare parts

Year 2010 onward

Micro, Small & Medium models

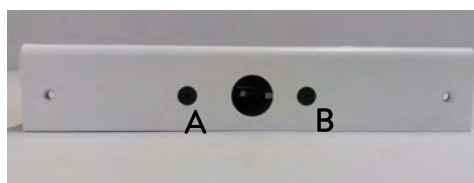


Micro & Small models



Remove side screws
Top cover
3 screws rear, 2 screws front & 2 screws middle
DO NOT REMOVE 4 screws around lid hinge

Remove 2 screws A & B



Top view of Front panel

The Lid lock will now be free to remove

Refit new Lid lock and fix in reverse order

NOTE. Emergency lid release cord must be pushed through the hole E.
The cord must be fixed to Black plug with cable tie to cord.

Medium models



Remove side screws

Top cover

3 screws rear, 2 screws front & 2 screws middle

DO NOT REMOVE 4 screws around lid hinge

Lid lock 1 and Lid lock 2

Unscrew 2 screws A, B & C, D from top of the front panel.

Remove Lidlocks

Replacelidlocksinsertscrewsandtighen

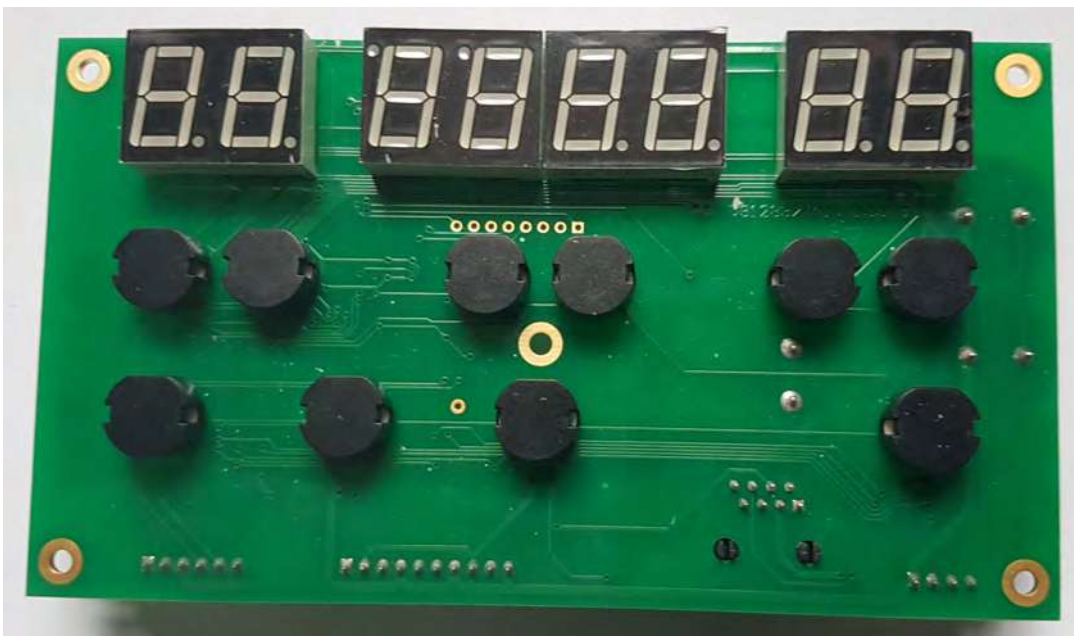


NOTE.

Cords from Lid locks (2)
Must be refitted to base
Into black plugs and
secured with cable ties

Models from year 2018

Part number. 3023302. VS1295 LED Board

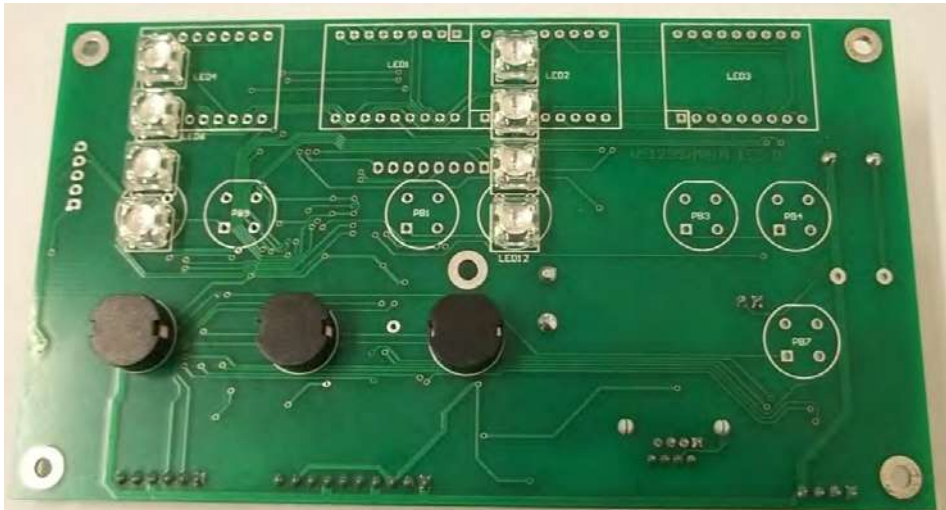


Examples of models



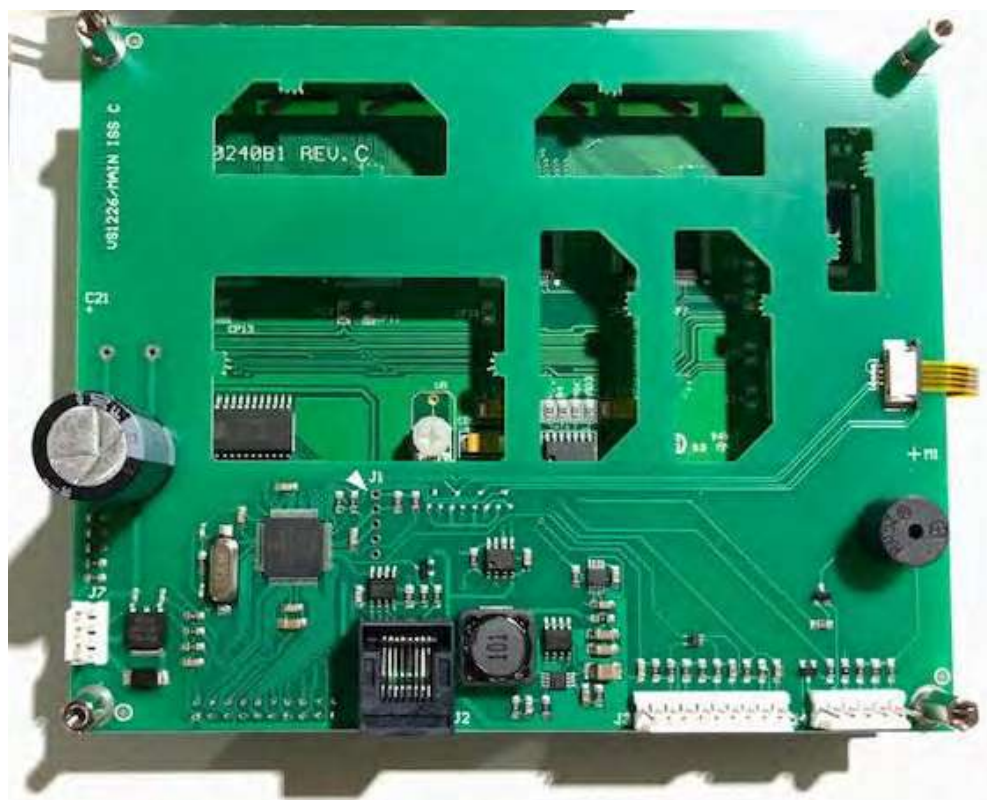
Models from year 2018

Part number 3023303. VS1295 LID board



Example of a model





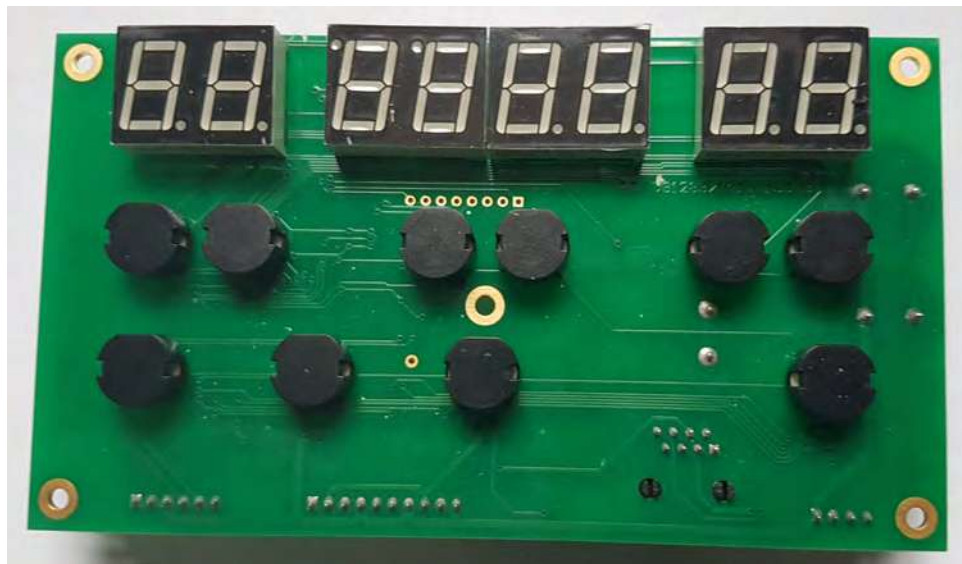
Part number. 3122601
VS1226 Back board



Part number. 3123601
VS1226 LCD touchscreen
display

Models from year 2010

Part number. 3022308.VS1283LED board

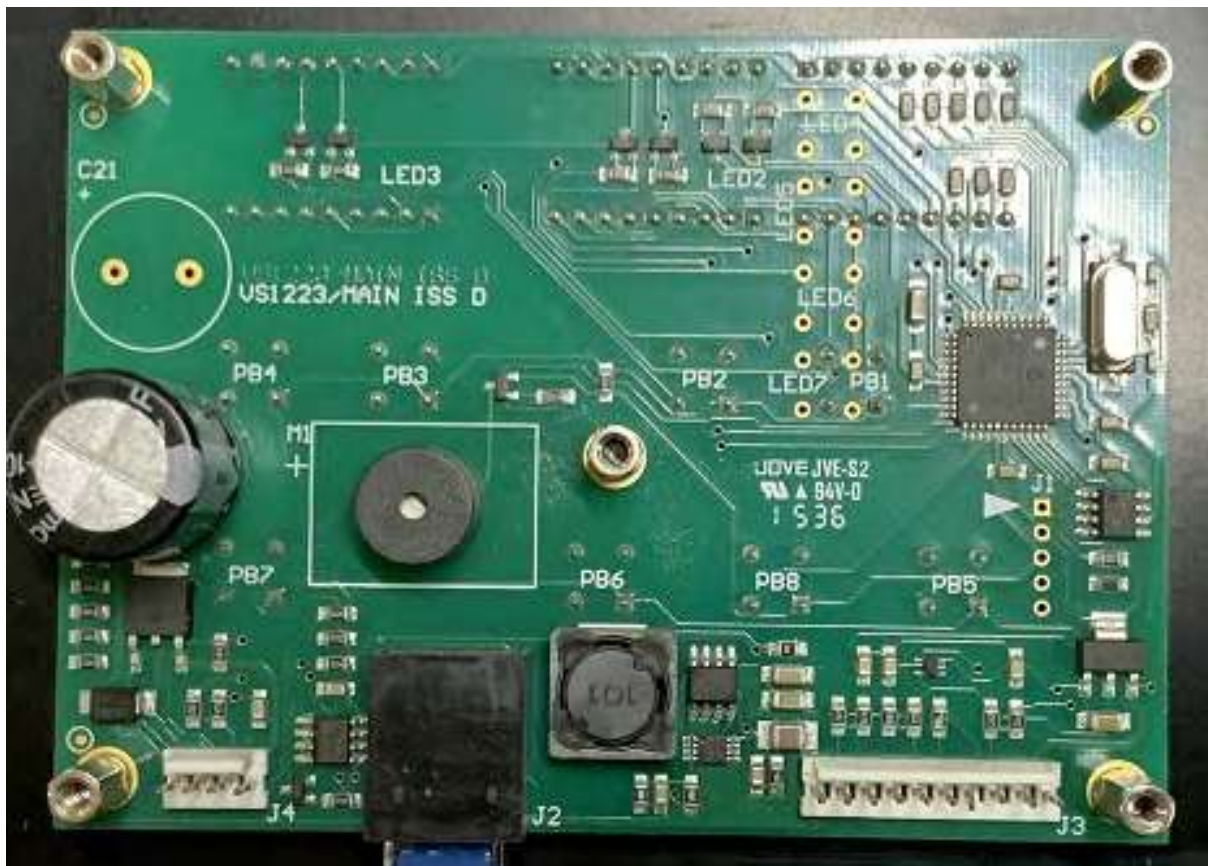


Example of a model

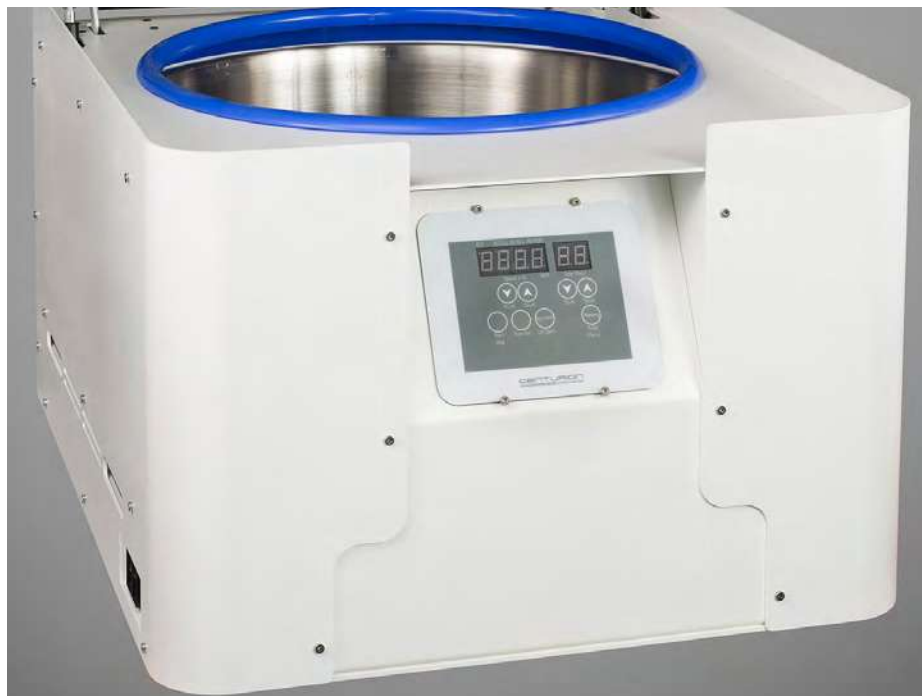


Models from year 2010

Part number. 3022304. VS1223LED board

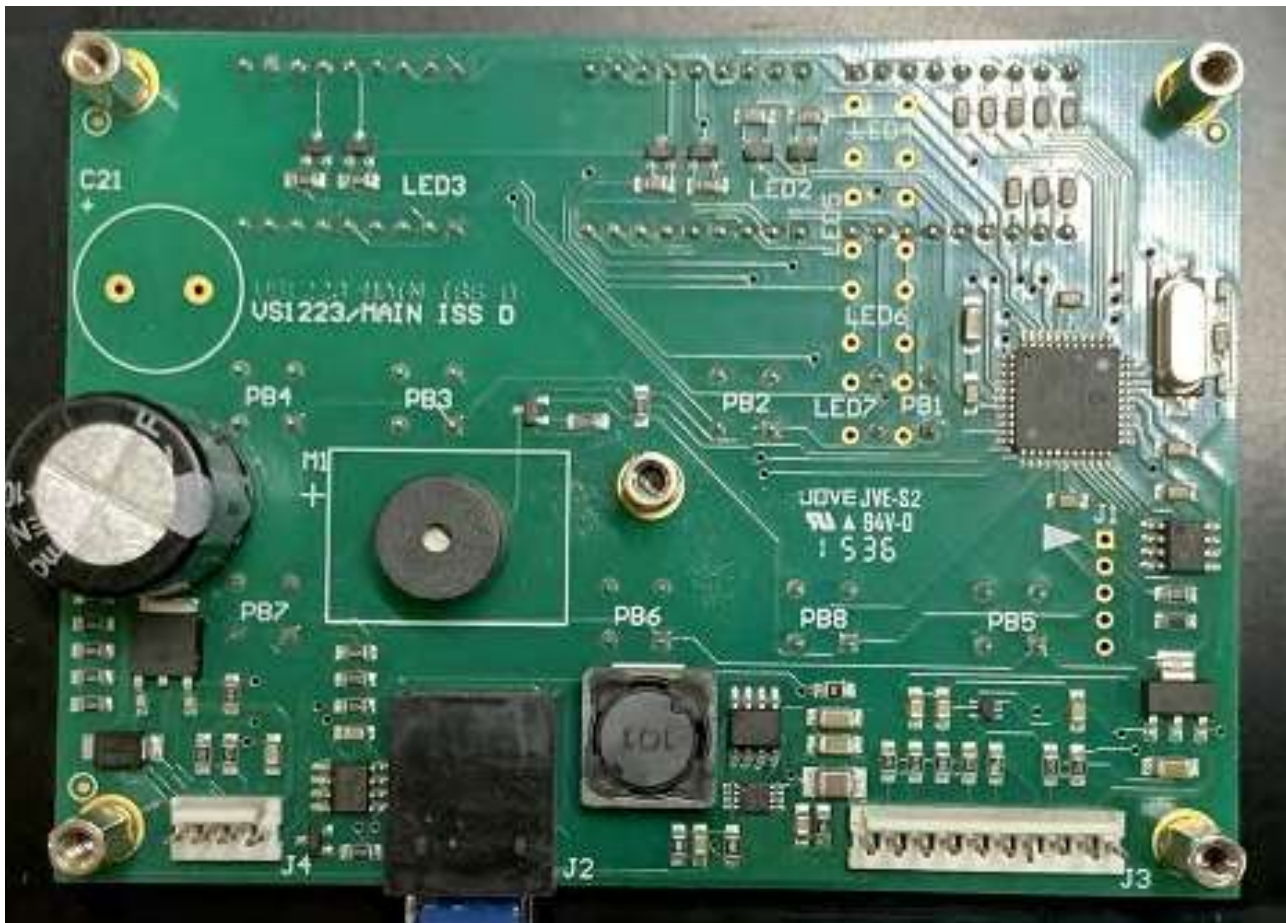


Example of a model



Models from year 2010

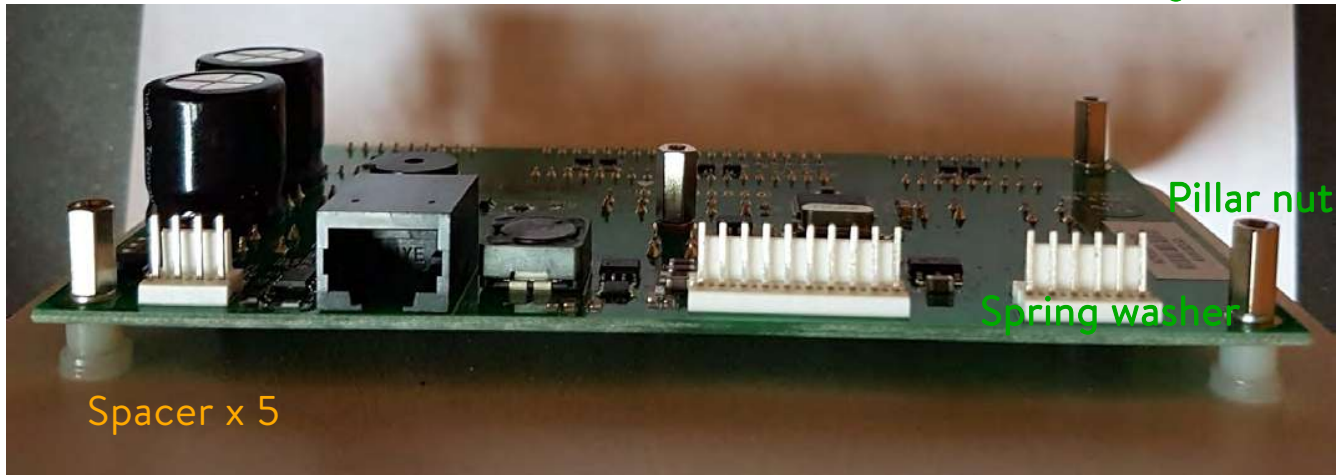
Part number. 3022307.VS1223LID board



Example of a model



Fit all 5 washers, then nuts (hand tighten)



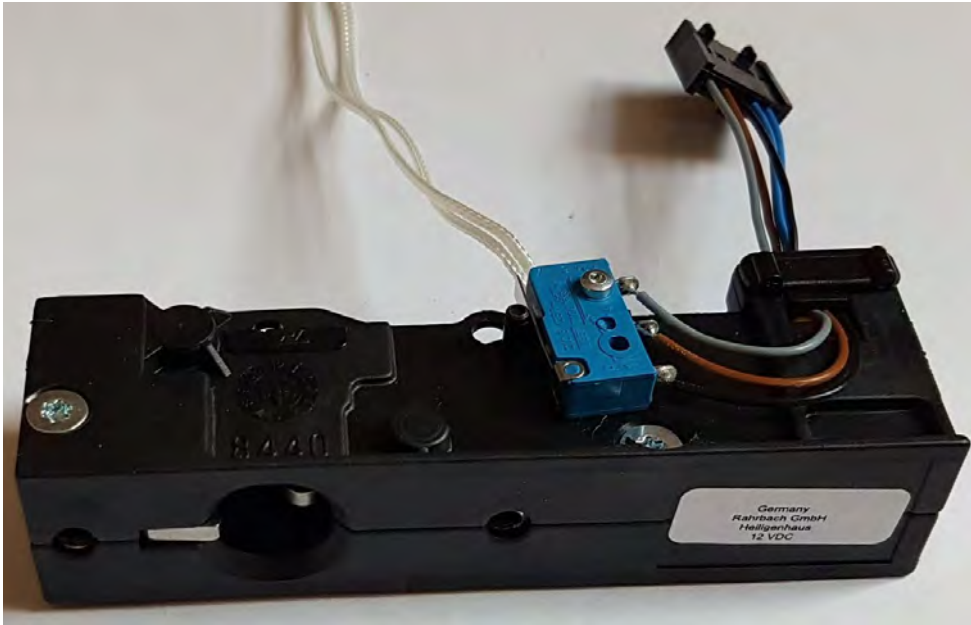
You must use the spacers supplied as critical to height and button use



You must fit all rubber buttons to switches. Part number 3022310 each

When fitting the Overlay be sure all buttons are in position .

Part number. 6184000. Lid lock 12volt each

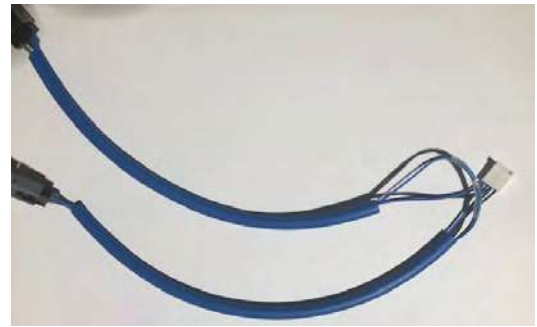


Latch
Part
number
2100404



For models
VS1295

Part number. 6182000.
Lock wiring (single)



Part number. 6182002.
Lock wiring (dual)

Part number 6182003.
Lock wiring (single)



For models
VS1223.
VS1283
VS1226

Part number 6182004
Lock wiring (dual)



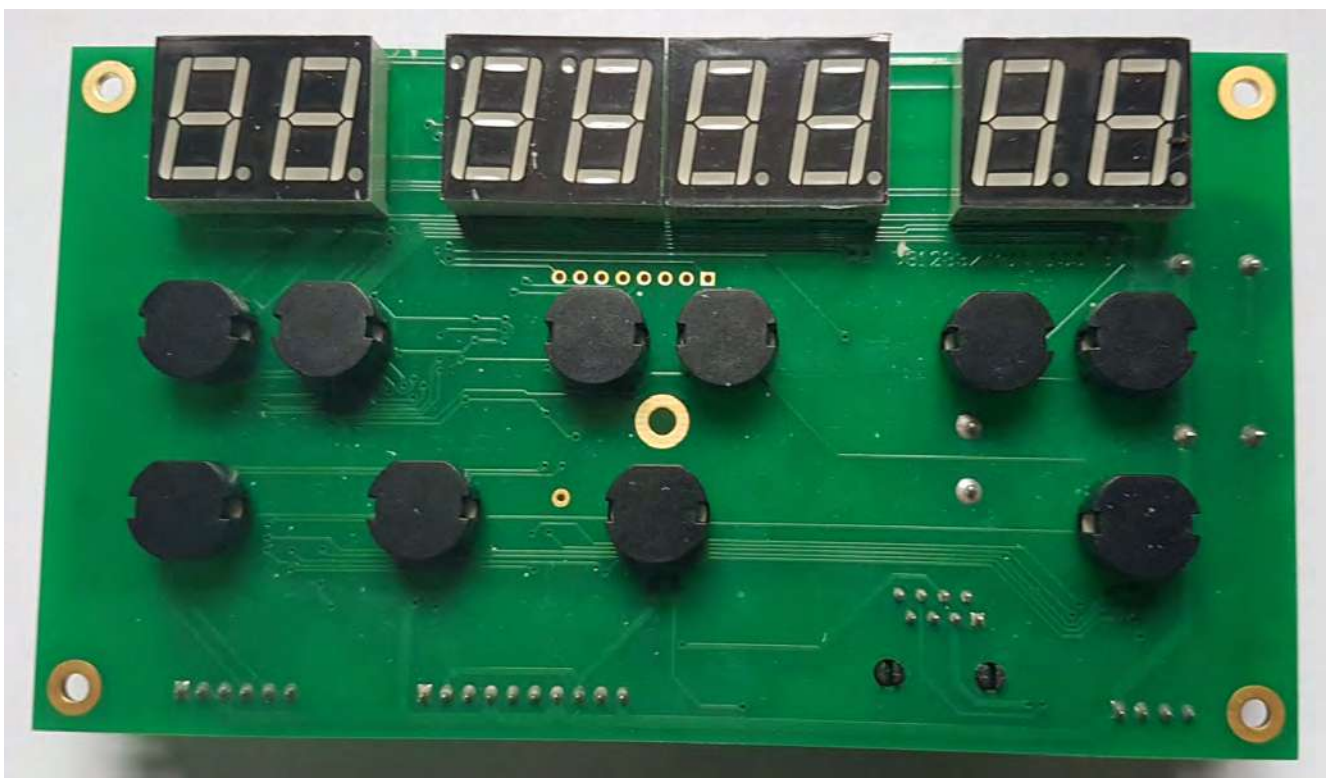
SPARE PARTS. Front panel

Year 2010 onward Large. Floor.Ambient & Refrigerated



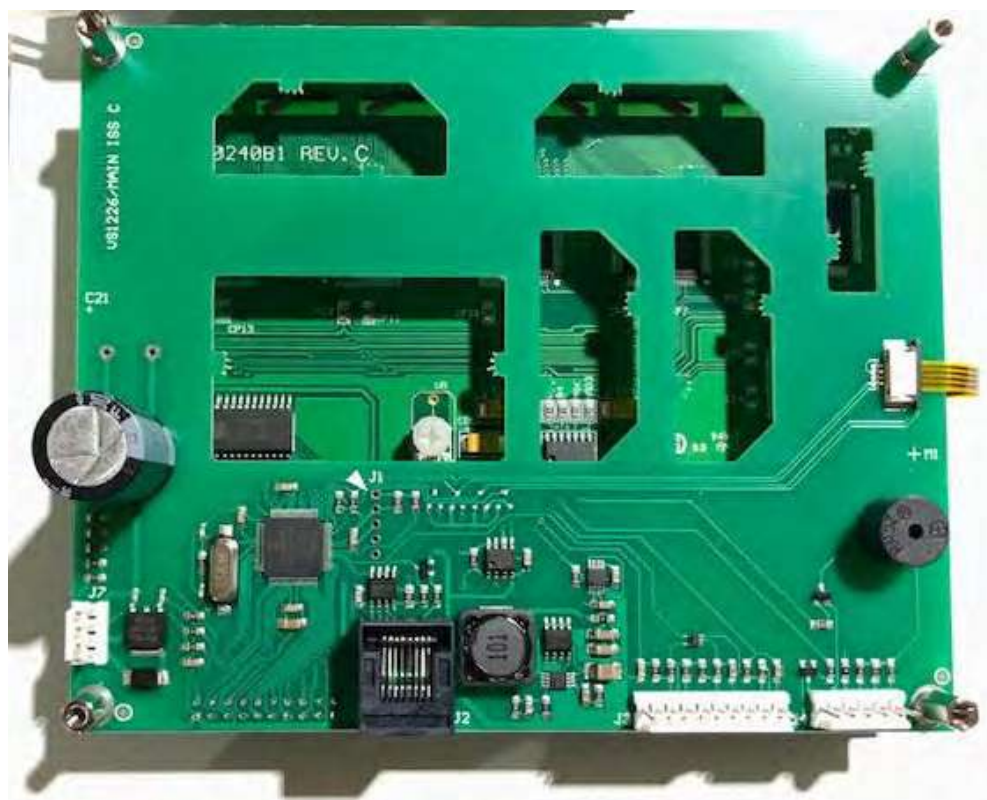
Models from year 2018

Part number. 3023302VS1295 LED board



Examples of model types Colours may have changed over years





Part number. 3122601
VS1226 Back board



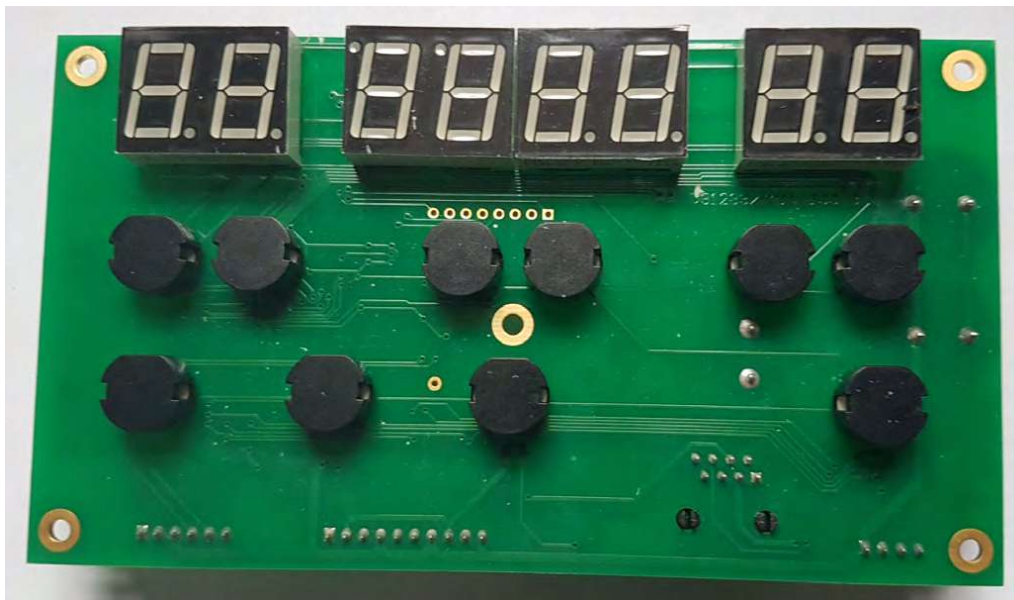
Part number. 3123601
VS1226 LCD touchscreen display

Examples of model types. Colours may have change over years



Models from year 2010

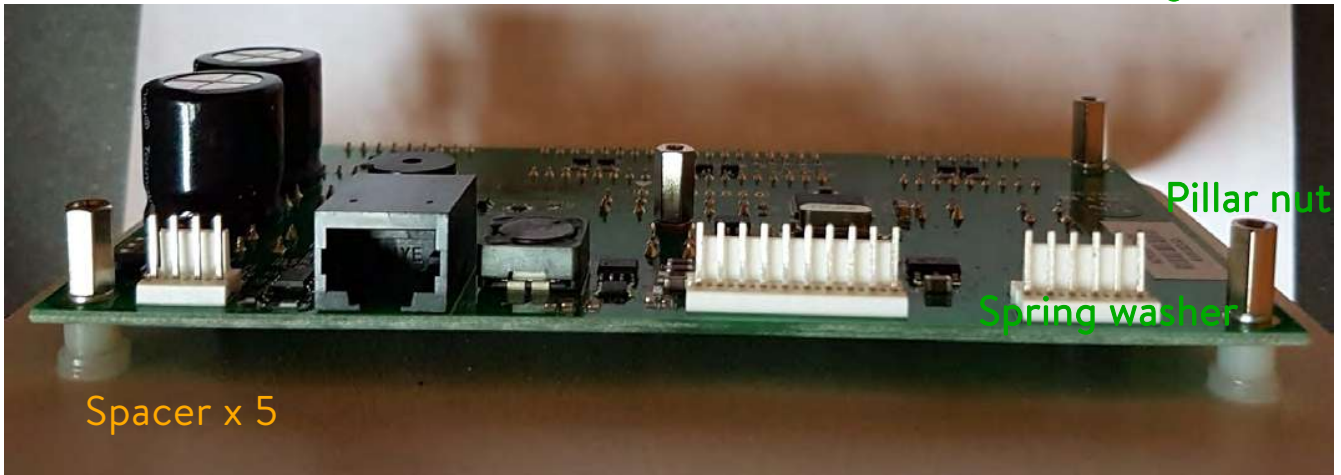
Part number. 3022308.VS1283LED board



Example of a model



Fit all 5 washers, then nuts (hand tighten)



You must use the spacers supplied as critical to height and button use



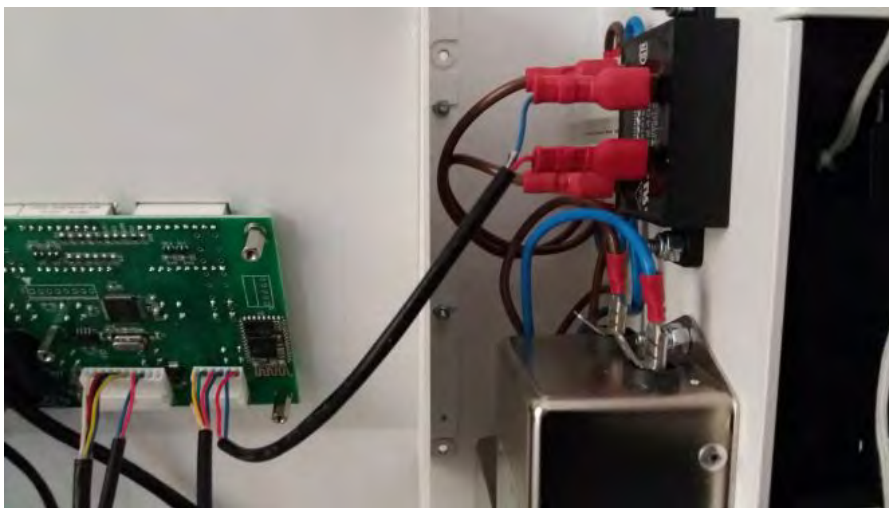
You must fit all rubber buttons to switches.

Part number 3022310 each .Rubber buttons

When fitting the Overlay be sure all buttons are in position .



*Front panel for.
Ambient & Refrigerated models
Large2L, Large3L & Floor*





Part number. 6880000
Motorised lid lock. Two
per Panel



Part number
6891000
Lid latch
large



Part number. 6890000.
Lid lock control board



Part number. 6000031.
18V Transformer



Nidec Inverter 1.1Kw. 110V 50/60Hz
Part number. 6004111
Year 2019 onwards
Models. *Large2L, Large3L & Floor.*
(Ambient & Refrigerated)

Nidec Inverter 1.5Kw. 230V 50/60Hz
Part number. 6003001
Year 2019 onwards
Models *Large2L, Large3L & Floor*
(Ambient & Refrigerated)



Delta Inverter 0.75Kw 110V
Part number. 6110080
Year 2017 onwards
Models Large2L, Large3L & Floor
(Ambient and Refrigerated)

Delta Inverter 0.75Kw 230V
Part number. 6230080
Year 2017 onwards
Models Large2L, Large3L & Floor
(Ambient and Refrigerated)



Emerson Inverter 1.1Kw 110V
Part number. 6004001
Year 2000 onwards
Models Large 2L, Large 3L & Floor
(Ambient and Refrigerated)

Emerson Inverter 1.1Kw 230V
Part number. 6004230
Year 2000 onwards
Models Large 2L, Large 3L & Floor
(Ambient and Refrigerated)

Spare parts list. Solid state relays. Refrigerated models only P31



Part number. 3128004.
Solid state relay 230 V



Part number. 3128002.
Solid state relay 110V

Part number. 2000272
EMC Filter 20 amp



*Used in models, Large2L, Large3L & Floor
ALL Refrigerated models have 2 fitted*



Part number. 2100033
Mains inlet 20 amp type
Fuse holders required (2)



Part number. 6100000
Fuse holders required (2)
Dual fuses 15 TA slow blow

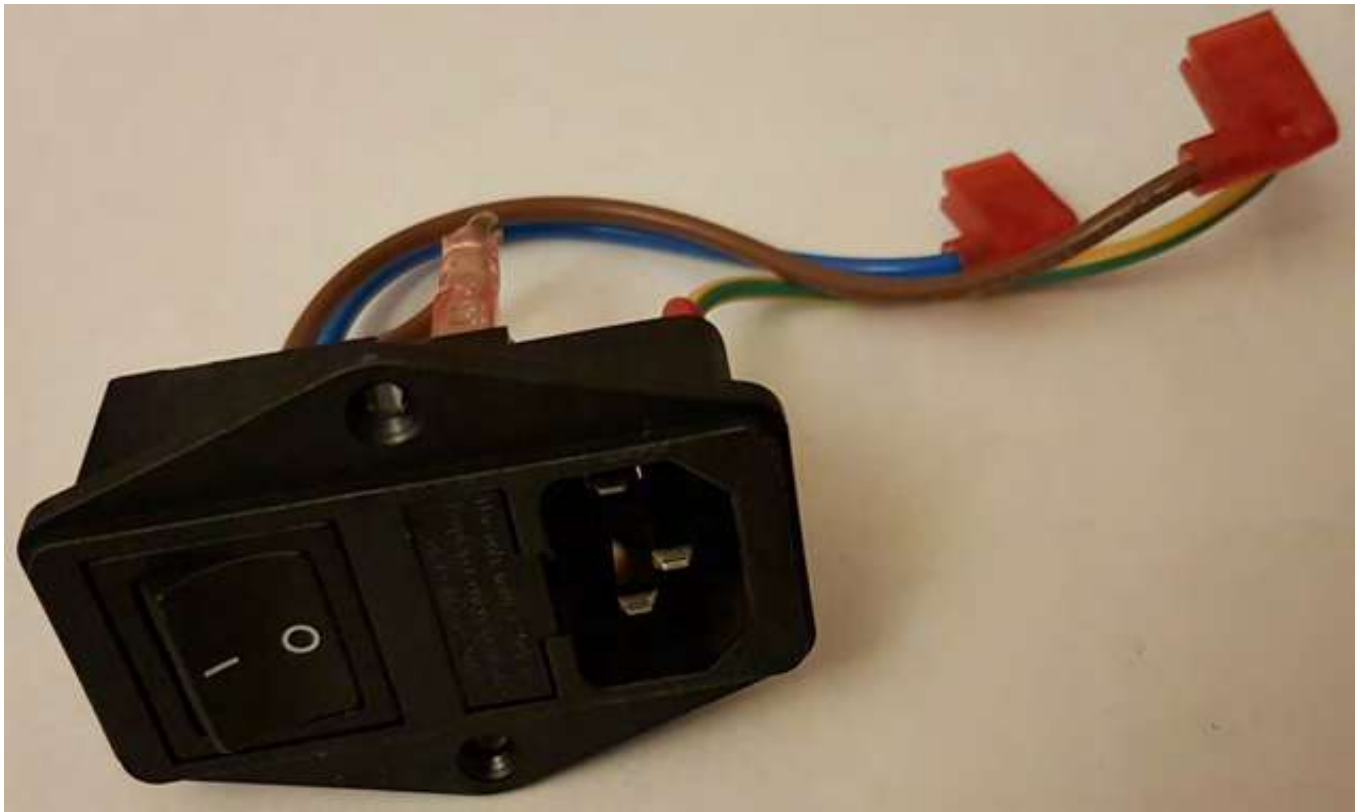
Used in models Large2L, Large3L & Floor Ambient

SPARE PARTS. Mains

Year 2010 onward

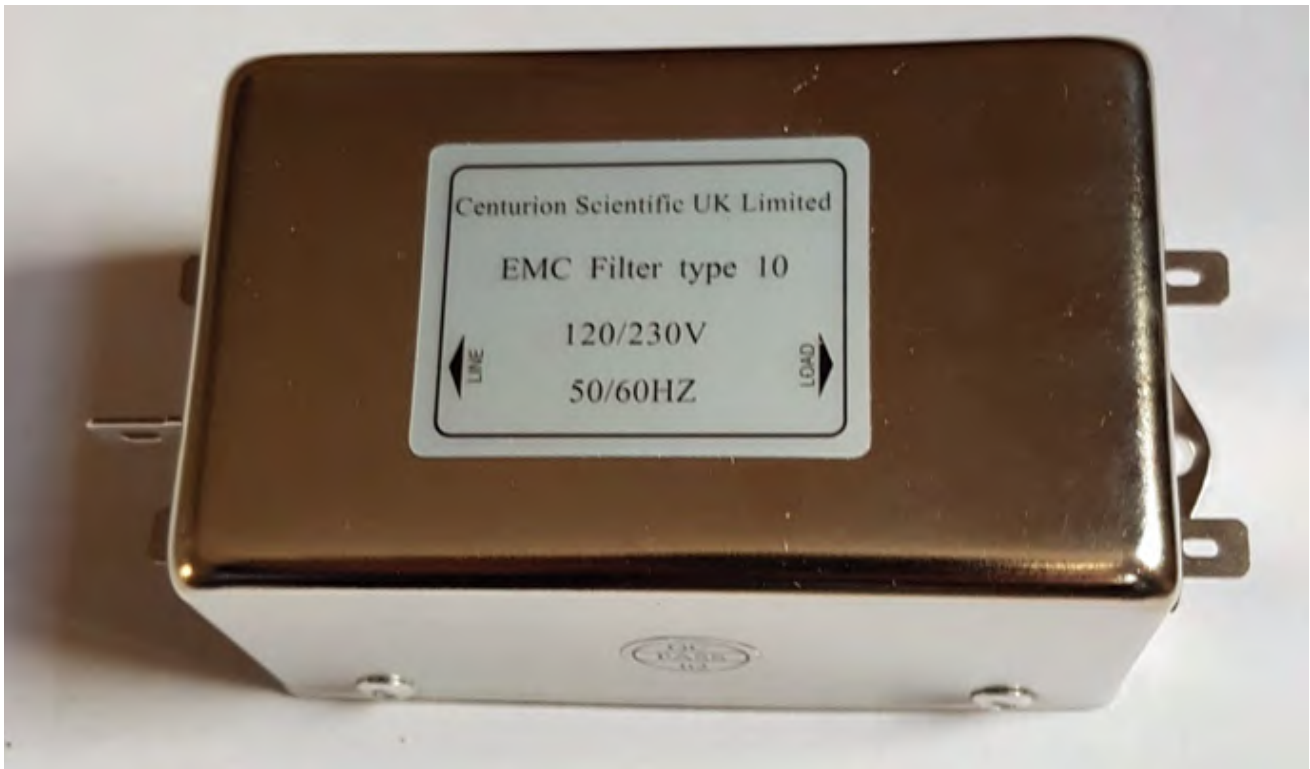
Ambient. Micro, Small & Medium





*Used in models Micro, Small & Medium.
(Ambient models only)*

Part number. 2100013
Mains inlet 10amp type
Dual fuses 6.3TA slow blow



Used in models, Micro, Small, Medium

Part number. 2000171
EMC Filter 10 amp



Nidec Inverter 0.37Kw. 230V 50/60Hz

Part number. 6002001

Year 2019 onwards

Models. Micro, Small, Medium. (Ambient & refrigerated)

Nidec Inverter 0.37Kw. 110V 50/60Hz

Part number. 6002010

Year 2019 onwards

Models. Micro, Small, Medium. (Ambient & Refrigerated)



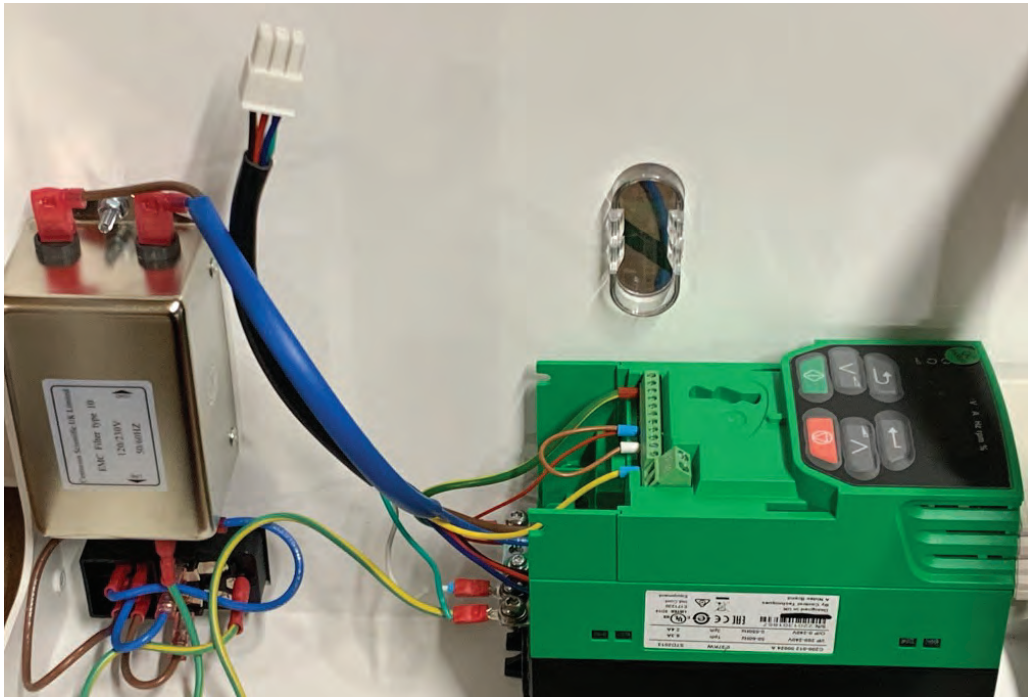
Delta Inverter 0.4Kw 110V
Part number. 6110040
Year 2017 onwards
Models *Micro, Small, Medium*
(Ambient and Refrigerated)

Delta Inverter 0.4Kw 230V
Part number. 6230040
Year 2017 onwards Models
Micro, Small, Medium
(Ambient and Refrigerated)



Emerson Inverter 0.37Kw 110V
Part number.6002002
Year 2000 onwards
Models Micro,Small & Medium
(Ambient and Refrigerated)

Emerson Inverter 0.37Kw 230V
Part number.6002001
Year 2000 onwards
Models Micro,Small & Medium
(Ambient and Refrigerated)



Rear Panel for. Ambient models. Micro, Small & Medium

SPARE PARTS. Mains

Year 2010 onward Refrigerated. Micro, Small, Medium

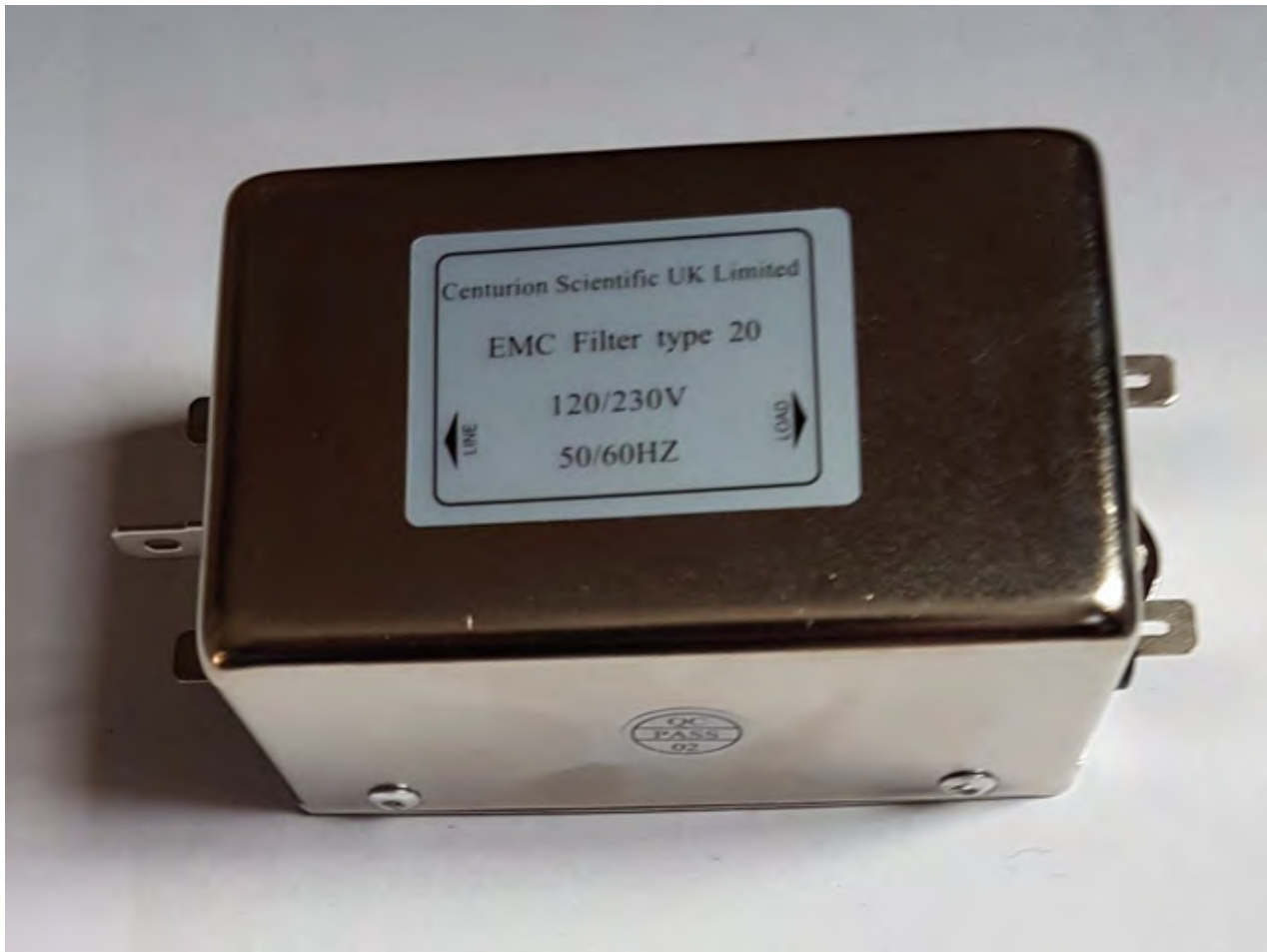




Part number. 2100033
Mains inlet 20 amp type
Fuse holders required (2)



Part number. 6100000
Fuse holders required (2)
Dual fuses 15 TA slow blow



ALL Refrigerated models

Part number. 2000272
EMC Filter 20 amp



Nidec Inverter 0.37Kw. 230V 50/60Hz

Part number. 6002001

Year 2019 onwards

Models. Micro, Small, Medium. (Ambient & refrigerated)

Nidec Inverter 0.37Kw. 110V 50/60Hz

Part number. 6002010

Year 2019 onwards

Models. Micro, Small, Medium. (Ambient & Refrigerated)



Delta Inverter 0.4Kw 110V
Part number. 6110040
Year 2017 onwards
Models Micro, Small, Medium
(Ambient and Refrigerated)

Delta Inverter 0.4Kw 230V
Part number. 6230040
Year 2017 onwards *Models*
Micro, Small, Medium
(Ambient and Refrigerated)

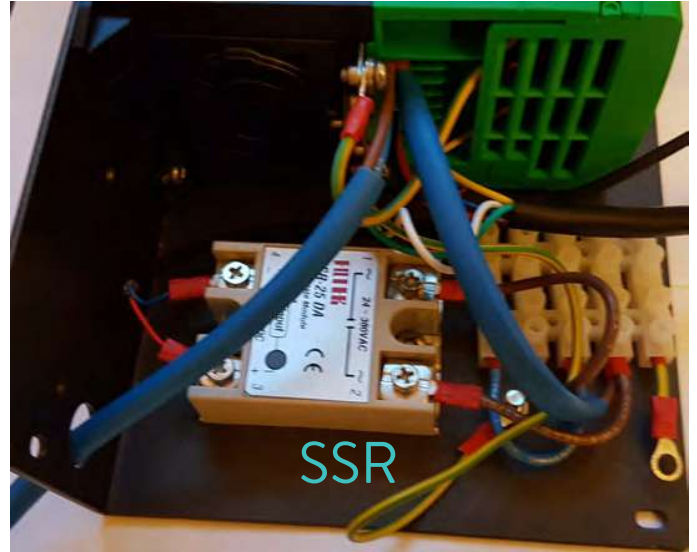


Emerson Inverter 0.37Kw 110V
Part number.6002002
Year 2000 onwards
Models Micro,Small & Medium
(Ambient and Refrigerated)

Emerson Inverter 0.37Kw 230V
Part number.6002001
Year 2000 onwards
Models Micro,Small & Medium
(Ambient and Refrigerated)



INV. Inverter, see previous pages



SSR. Solid state relays



Part number. 3128002
110 Volt use Solid state relay



Part number. 3128004
230 Volt use Solid state relay

PARTS LISTS. MOTORS

Year 2000 onward

Ambient & Refrigerated



P Motor plate for Power reference

Part number. 1189001
100 Watt Power motor
Complete with connector
NO Anti vibration mounts



Part number. 1104203
Anti vibration mounts
Set of 3 required
Size H20 x W20mm

R. Part number 1184136
Rotor recognition sensor with connector

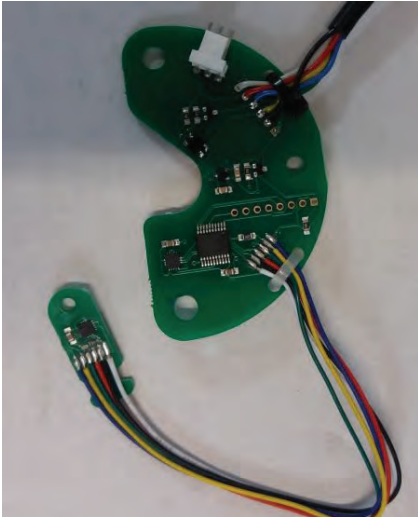


T. Part number 4101001
Top cover to motor boot

Part number 4100001
Rubber boot cover
Holed (ambient only)

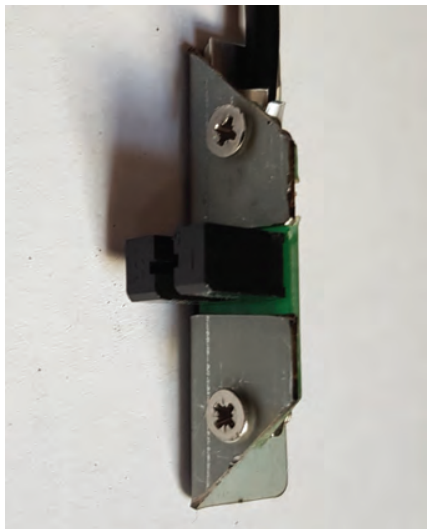
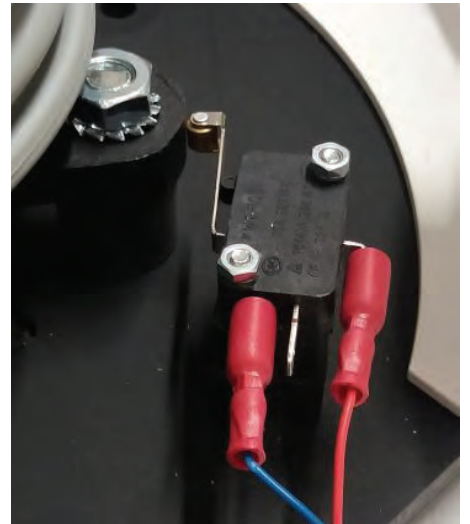


Spare parts list motor. Tachometer & Imbalance detectors P 50



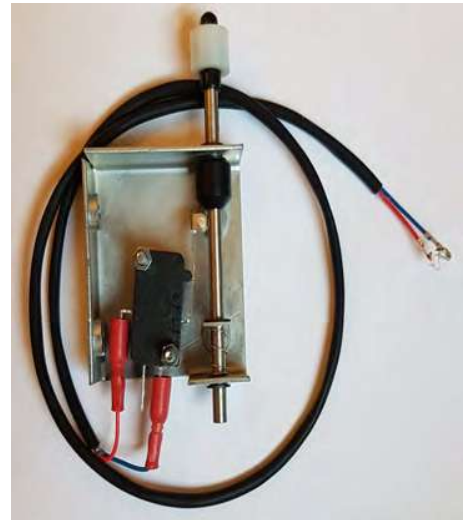
Part number. 1035791
Electronic tachometer and
Imbalance detector

Part number
6103203
Mechanical
Imbalance
detector



Part number
6103205
Bracket
Imbalance
detector

Part number. 1184081
Tachometer Horseshoe type
With metal bracket



Part number. 1184071
Tachometer Horseshoe type
With PP bracket

Part number
1035790
Electronic
Tachometer
only



Spare parts list motor , Power 200 Watt (small & medium cent) P 51

P Motor plate for Power reference

Part number. 1188001
200 Watt Power motor
Complete with connector
NO Anti vibration mounts



Part number. 1184202
anti vibration mounts
Set of 3 required
Size H30 x W25mm



R. Part number 1184136
Rotor recognition sensor with connector

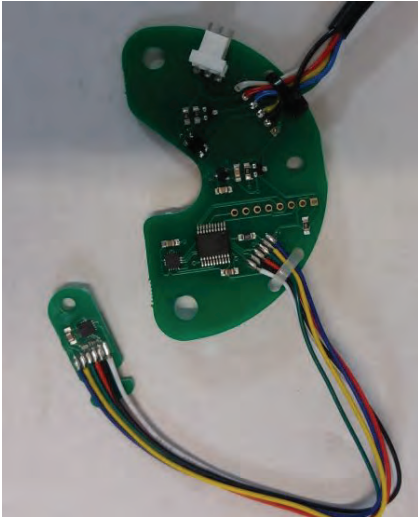
T. Part number 4101001
Top cover to motor boot



Part number 4100001
Rubber boot cover
Holed (ambient only)

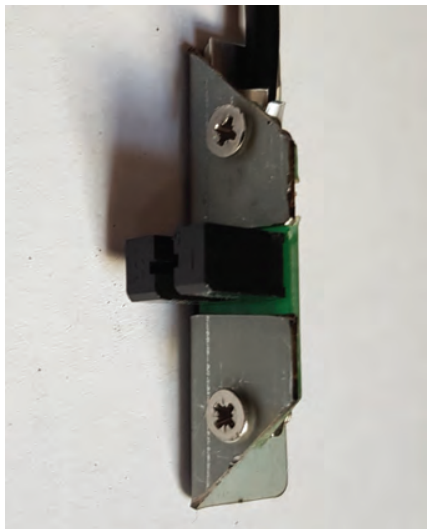
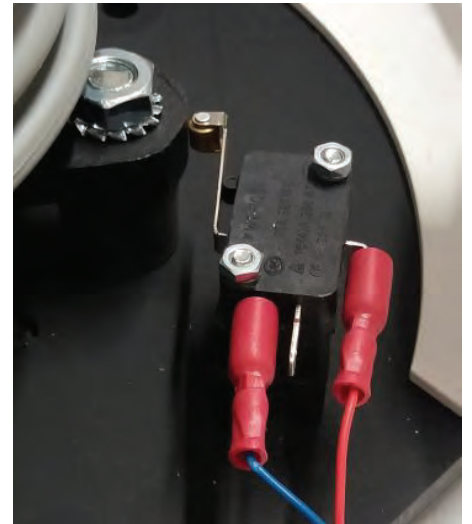


Part number.4100002
Rubber boot cover
Non holed (Refrigerated model)



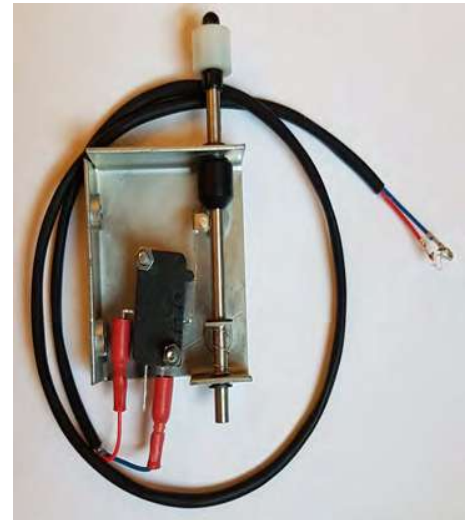
Part number. 1035791
Electronic tachometer and
Imbalance detector

Part number
6103203
Mechanical
Imbalance
detector



Part number
6103205
Bracket
Imbalance
detector

Part number. 1184081
Tachometer Horseshoe type
With metal bracket



Part number. 1184071
Tachometer Horseshoe type
With PP bracket

Part number
1035790
Electronic
Tachometer
only



P Motor plate for Power reference

Part number. 1189101
1000 Watt Power motor
Complete with connector
NO Anti vibration mounts



Part number. 1104205
Anti vibration mounts
Set of 4 required
Size H30 x W40mm



R. Part number 1184136
Rotor recognition sensor with connector

T. Part number 4101001
Top cover to motor boot

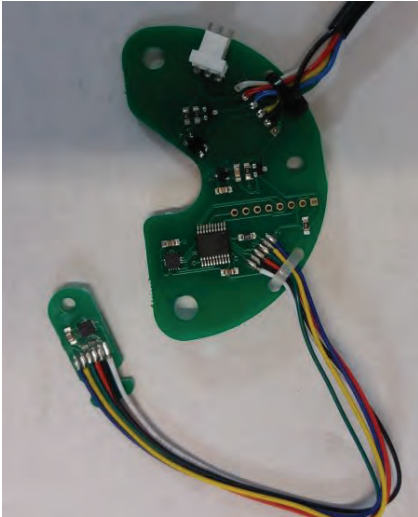


Part number 4130112
Rubber boot cover
Holed (ambient only)



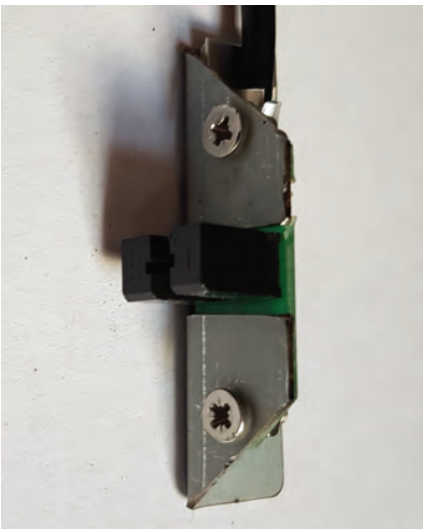
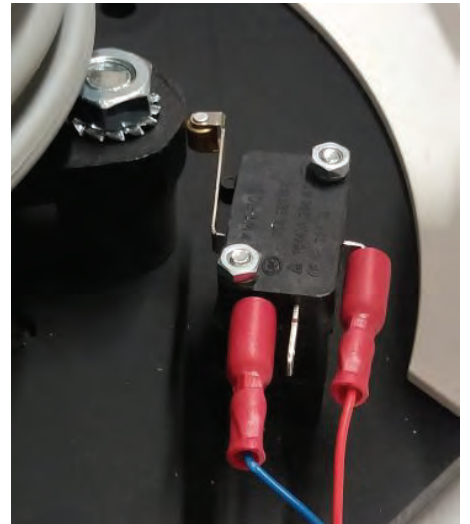
Part number.4130111
Rubber boot cover
Non holed (Refrigerated model)

Spare parts list motor. Tachometer & Imbalance detectors P 54



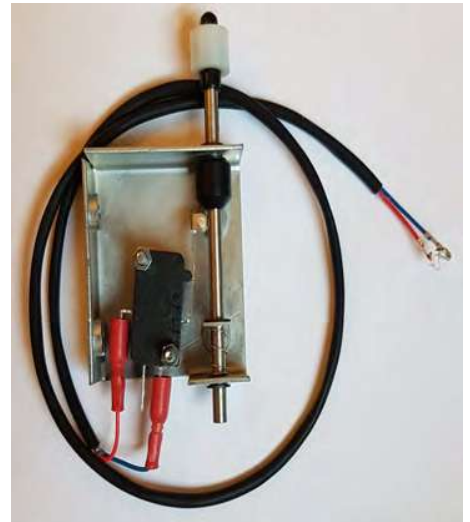
Part number. 1035791
Electronic tachometer and
Imbalance detector

Part number
6103203
Mechanical
Imbalance
detector



Part
number
6103205
Bracket
Imbalance
detector

Part number. 1184081
Tachometer Horseshoe type
With metal bracket



Part number. 1184071
Tachometer Horseshoe type
With PP bracket

Part number
1035790
Electronic
Tachometer
only



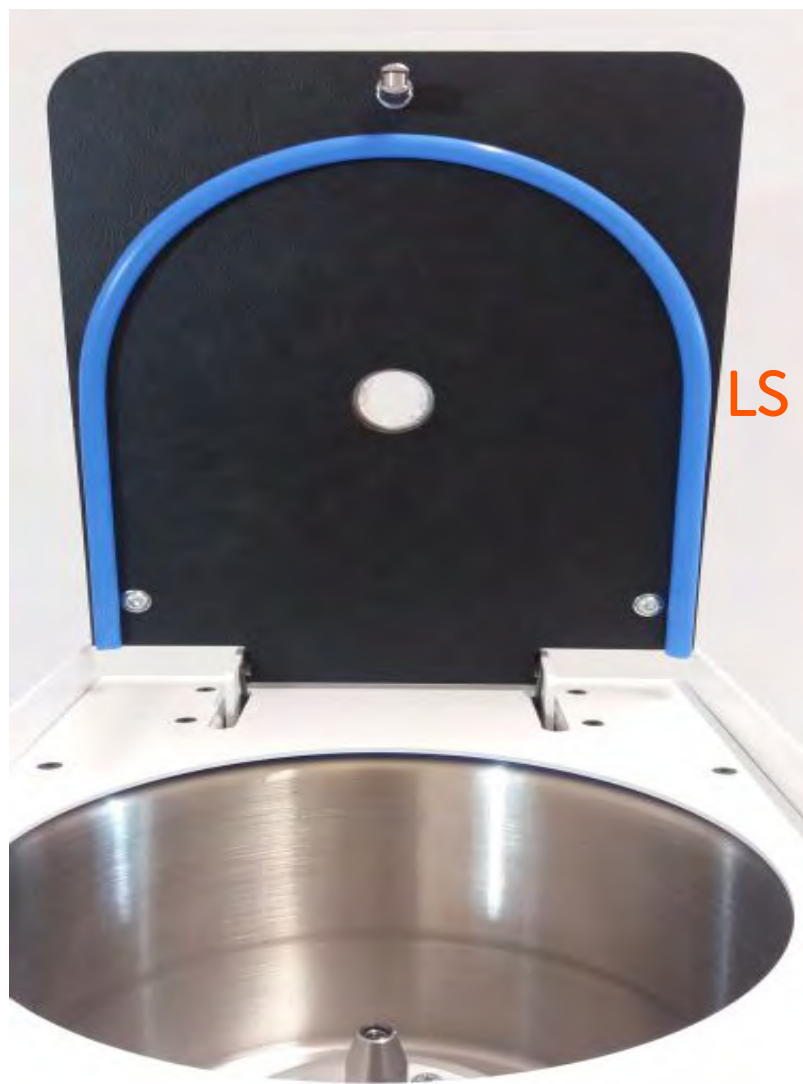
PARTS LISTS.

Lid seals, Bowl underseal and springs

Year 2010 onward

ALL Models



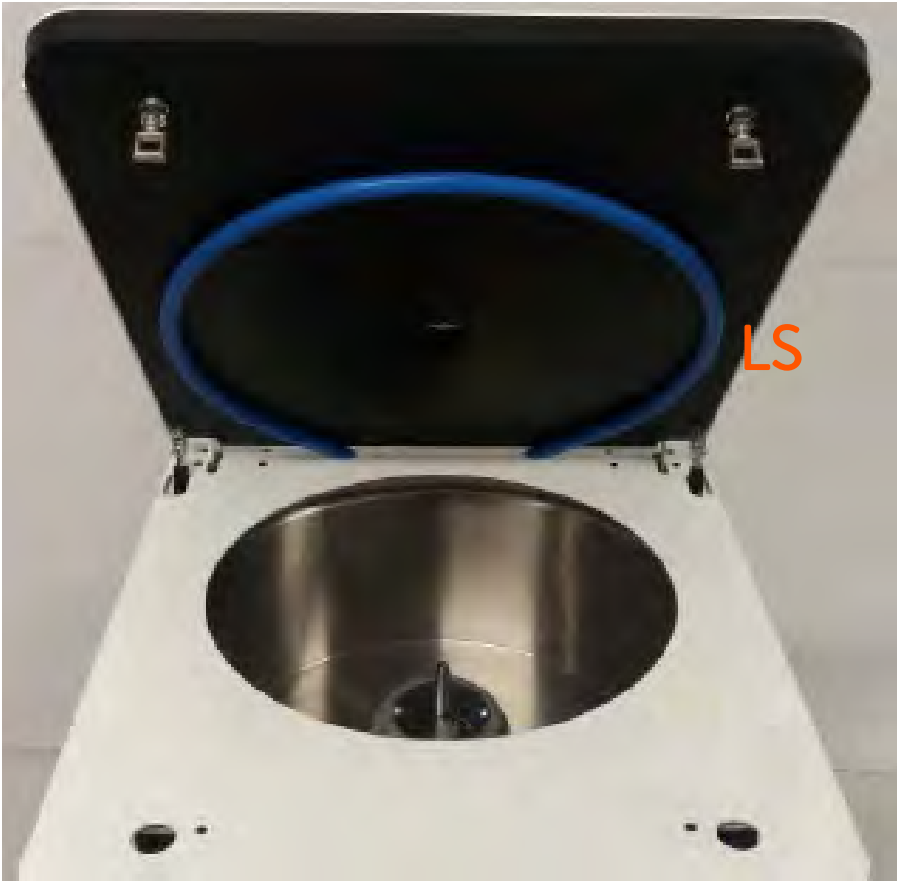


LS Part number. LSAPT

Lid under seal

One length only, cut to fit Models Micro, Small & Medium

LID Seal Ambient models Large2L, Large3L & Floor P 57



LS Part number. LSAPTL

Lid under seal

One length only, cut to fit Models Large2L, Large3L & Floor



LS. Part number. **LSAPT.9R** Full circular lid seal Micro **Refrigerated model**

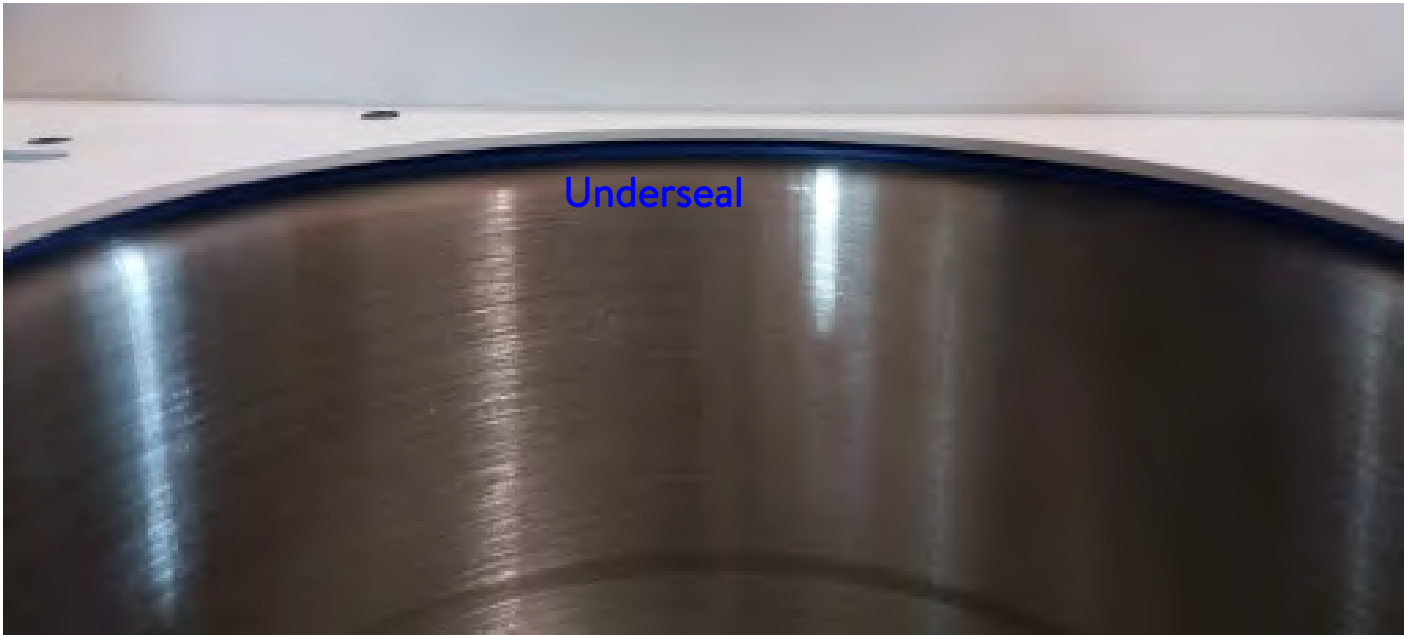
LS. Part number. **LSAPT.7R** Full circular seal Small **Refrigerated model**

LS. Part number. **LSAPT.5R** Full circular seal Medium **Refrigerated model**



LS. Part. number LSAPTL.3R

Full circular under lid seal **Refrigerated models only** Large2L, Large3L & Floor



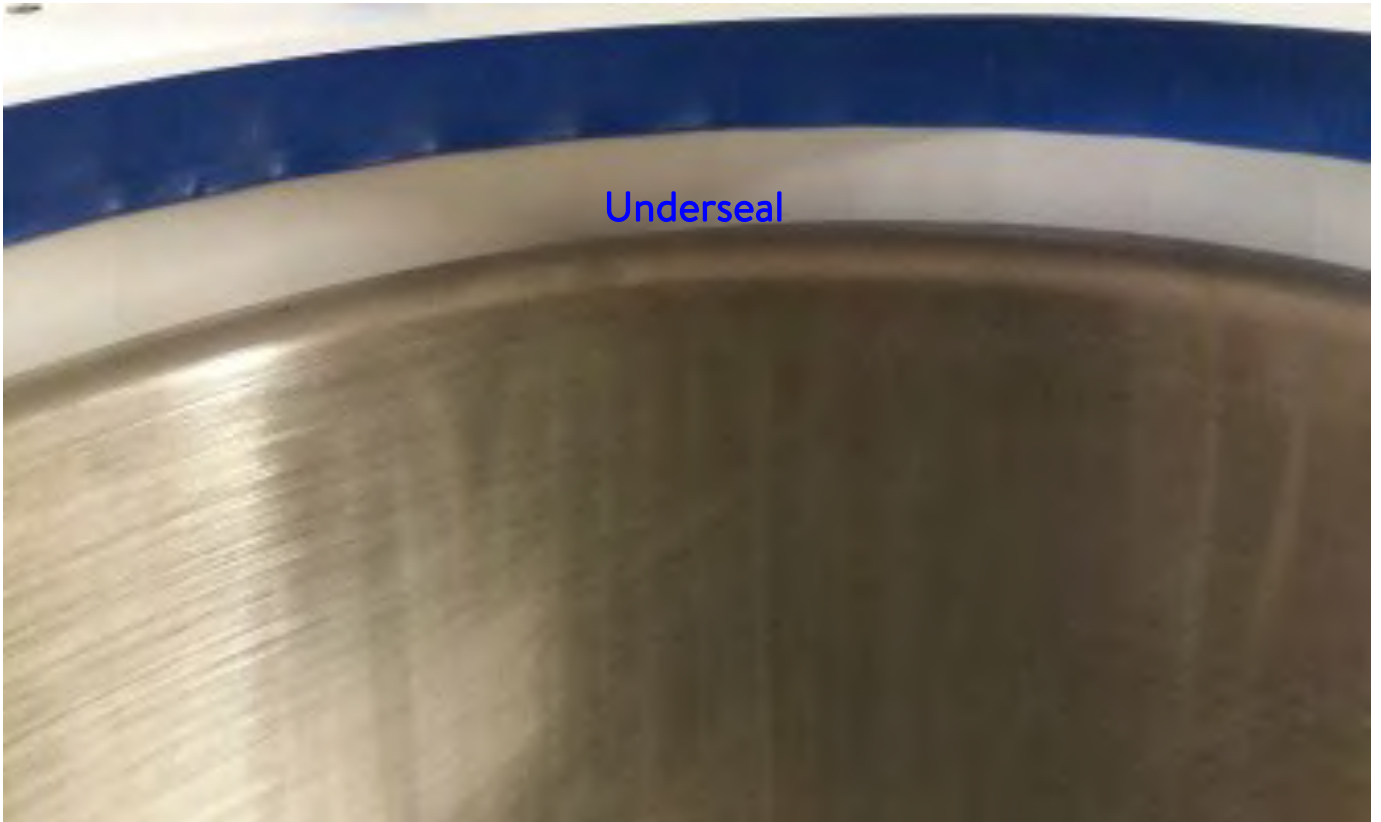
Part numbers Ambient

4190022. Micro underseal

4170022. Small underseal

4150021. Medium underseal

2142611. Large 2/3 & Floor



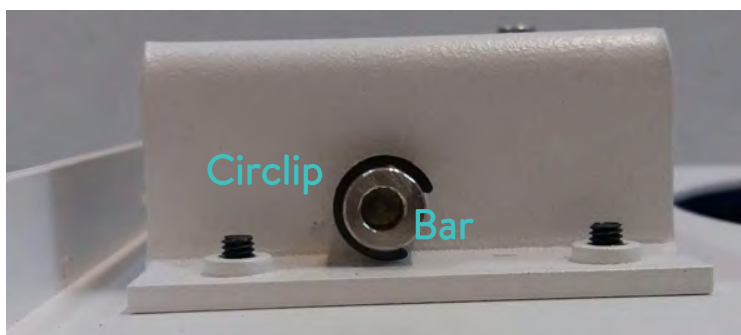
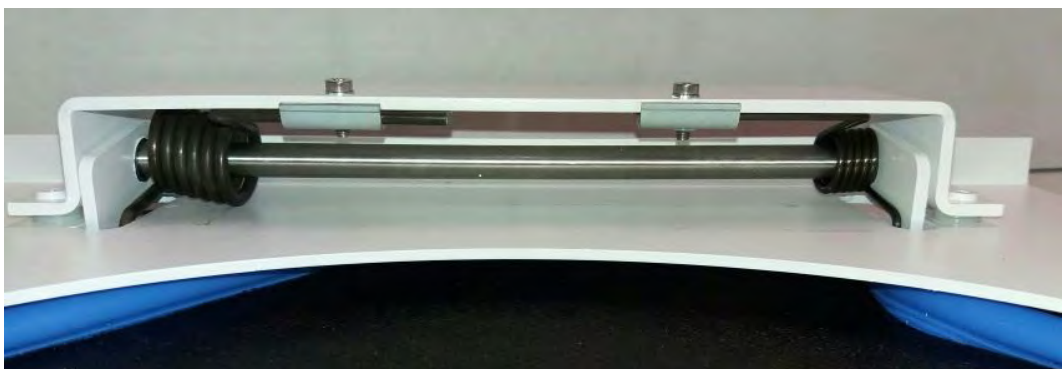
Part numbers Refrigerated

LUS.9R Micro R underseal

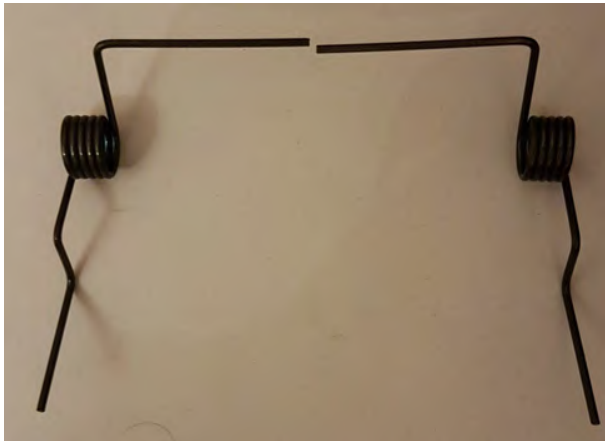
LUS.7R. Small R underseal

LUS.5R. Medium R underseal

LUS.3R Large & Floor R underseal



NOTE Circlips must be fitted



Part number. Micro box springs
LEFT XSP9L RIGHT XSP9R
Ambient models

Part number.Micro box springs
LEFT XSP9L RIGHT XSP9R
[Refrigerated models](#)



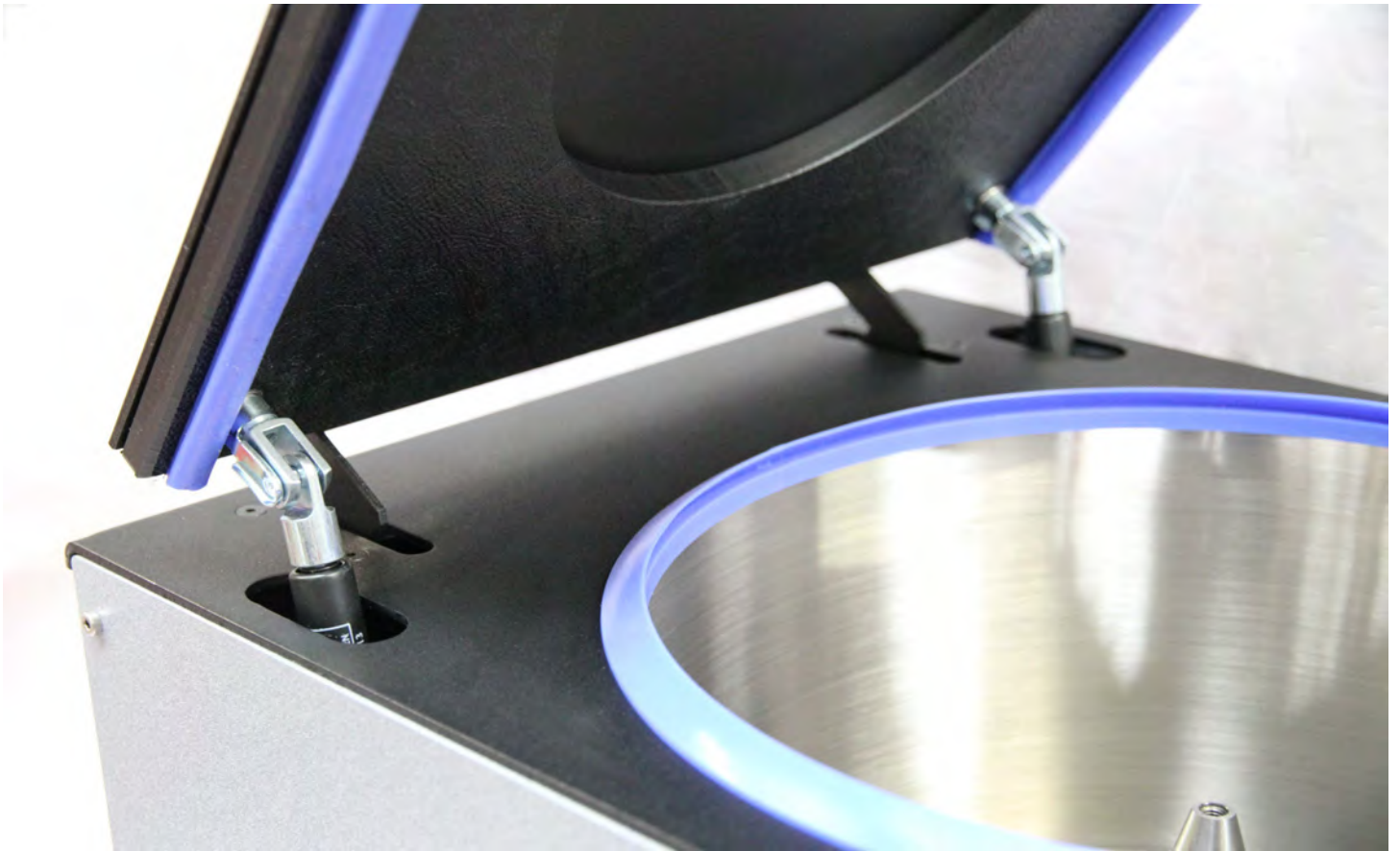
Part number. Small box springs
LEFT XSP9L RIGHT XSP5R
Ambient models

Part number.Small box springs
LEFT XSP5L RIGHT XSP5R
[Refrigerated models](#)



Part number. Medium box springs
LEFT XSP5L RIGHT XSP5R
Ambient models

Part number. Medium box springs
LEFT XSP5L RIGHT XSP5R
[Refrigerated models](#)



N. See N number here



Gas struts used in both Ambient and Refrigerated models
Large 2L, Large3L and Floor sizes.

Part number. 2132802. Gas strut 265 Nms **Left side**

Part number. 2190202. Gas strut 160Nmsl **Right side**

.....

OLDER MODELS

Part number. 2152801. Gas strut 95Nm Medium Refrigerated model

Part number. 2172801. Gas strut 55Nm Small Ambient models



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Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

эл.почта: cif@nt-rt.ru || сайт: <https://centurionscientific.nt-rt.ru/>