

Stannah

MIDLIFT PICCOLO

ELECTRICAL WIRING MANUAL

ISSUE:

11

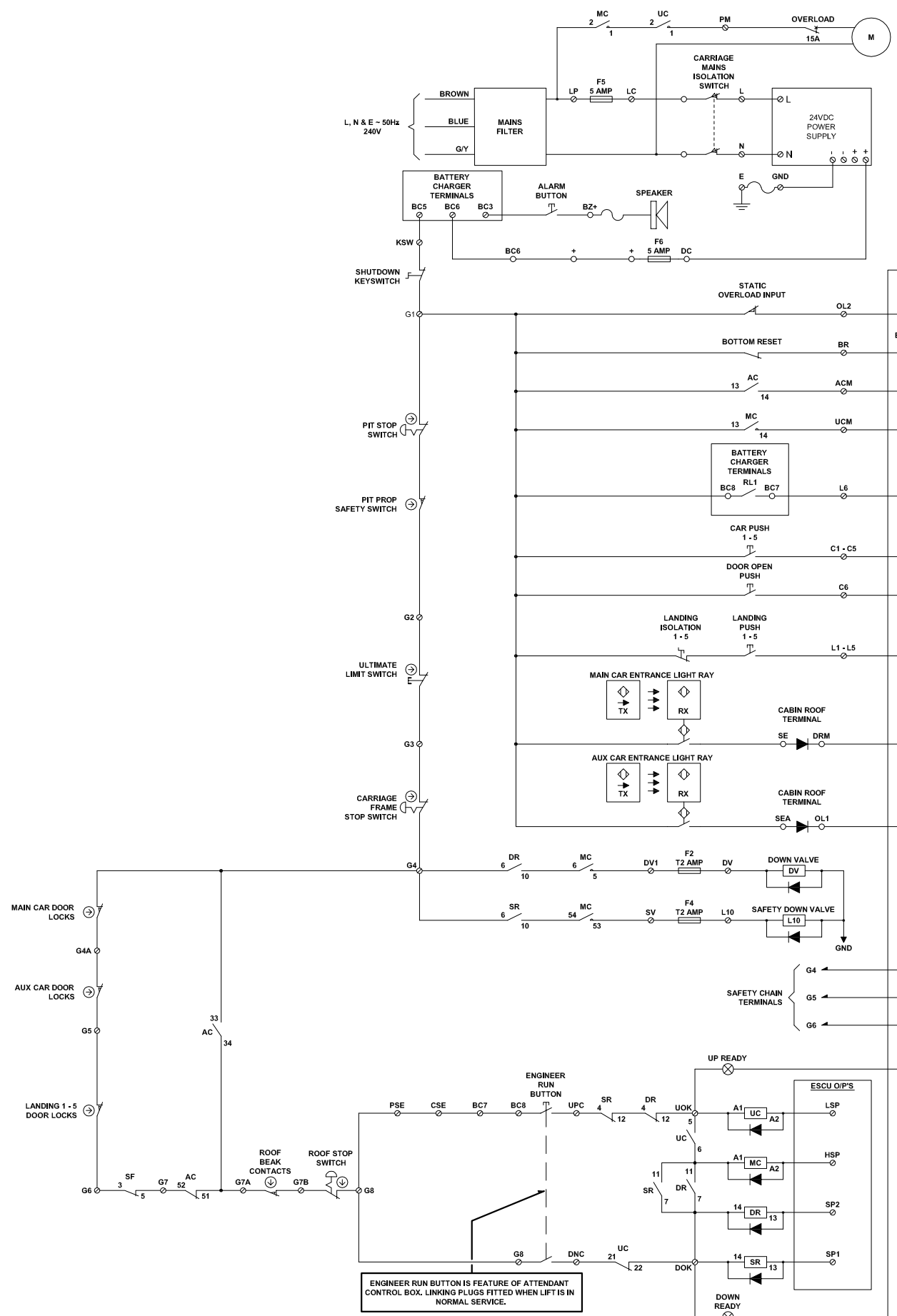
**THIS MANUAL IS TO
BE LEFT WITH THE
FOLLOWING
CONTRACT:**

**STANNAH PART NO:
916144**

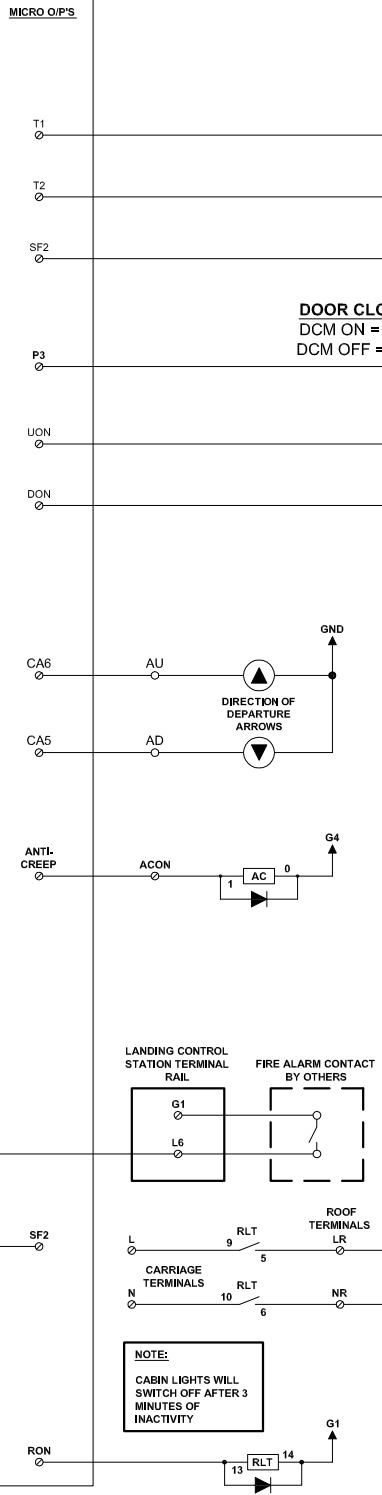
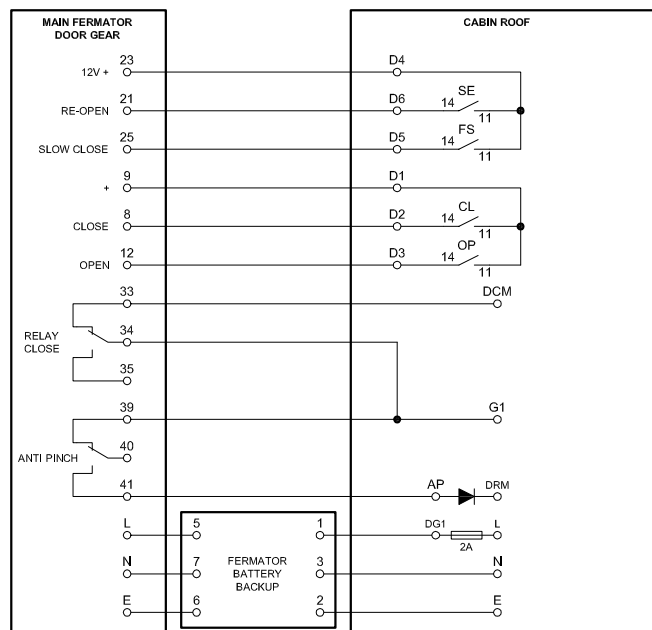
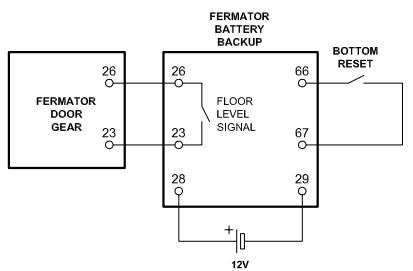
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INDEX

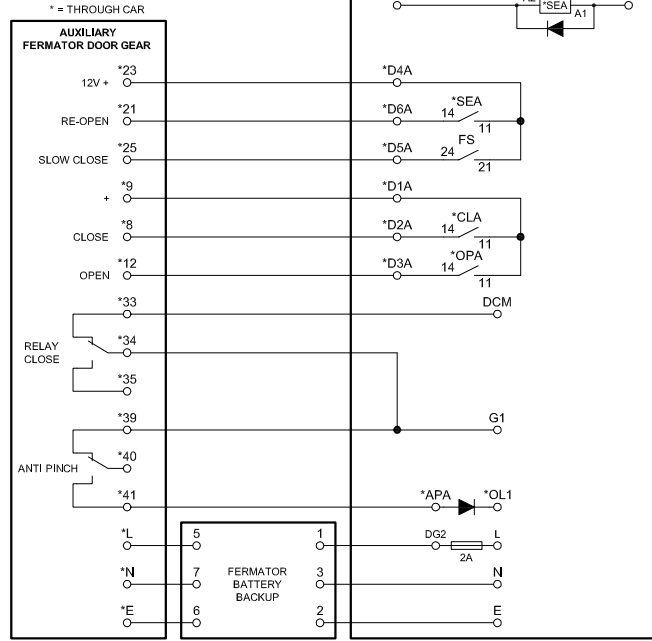
UPDATED DRAWINGS (*)	DRAWING NUMBER	REV	DRAWING DESCRIPTION	PAGE NUMBER
	9448-073	B	PICCOLO (DIRECT) main key wiring diagram	1
	9448-094	A	PICCOLO (2:1) main key wiring diagram	2
	9448-059	B	Carriage component tray connection details	3
	9448-074	B	Carriage cover connection details	4
	9448-084	A	Trailer cable connection details	5
	9448-056	B	Trailer junction box relay connection details	6
	9448-062	D	PICCOLO (DIRECT) Hydrax pump motor connection details (L10 valve)	7
	9448-097	C	PICCOLO (2:1) GMV pump motor connection details (DLV valve)	8
	9448-075	B	Landing station with call Isolation connection details	9
	9448-076	B	Landing station connection details	10
	9448-077	A	Landing station loom connection details	11
	9448-086		Landing station with security by others connection details	12
	9448-057	C	Encoder and reset switch connection details	13
	9448-012	C	Carriage DDU connection details	14
*	9448-014	F	Autodial connection details	15
	9448-015	C	Telephone connection details	16
	9446-009	B	Controller pit stop / pit prop connection details	17
	9448-099		Safety gear monitoring / ultimate limit / cabin frame stop switches	18
	9448-023	A	External serial control pcb connection details	19
	9448-060	B	Trailer connection box terminals (shaft)	20
	9448-085	C	Carriage control tray terminal connection details	21
	9448-078	A	Carriage roof (single entrance) connection details	22
	9448-079	B	Carriage roof (double entrance) connection details	23
	9448-080	E	Fermator doorgear (single entrance) connection details	24
	9448-081	E	Fermator doorgear (double entrance) connection details	25
	9448-082		Direction of departure arrows connection details	26
*	9448-083	C	Car door entrance light ray connection details	27
	9448-032	A	Alarm sounder connection details	28
	9448-054	A	Alarm volt free contact enclosure connection details	29
	9448-070	B	Videx Intercom connection Details	30
	9448-029	D	Load weighing device connection details	31
	9452-044	A	Midlift MEMCO GSM (DPC unit) wiring / setup guide	32
	APPENDIX A	C	Installation guide	33
	APPENDIX I	C	Motor calibration procedure	34
	APPENDIX C	B	Learn mode procedure	35
	APPENDIX B	E	Fault code list	36
	APPENDIX D		Midlift Trailer PCB layout (9300/88)	37
	APPENDIX E		Midlift ESCU PCB layout (9300/91)	38
	APPENDIX F	A	Midlift Control PCB layout (9300/61)	39
	APPENDIX G		Earth bonding guide	40
	APPENDIX H	C	Load weighing device setup (1 of 2)	41
	APPENDIX H	B	Load weighing device setup (2 of 2)	42



IMPORTANT NOTE:
 LATCH LANDING OPERATION AND FIRE ALARM SHUTDOWN MUST BE DISABLED DURING INSTALLATION, SERVICE INSPECTION AND WHENEVER CARRIAGE COVER IS REMOVED. REFER TO APPENDIX A FOR PROCEDURE.



DOOR CLOSED AND LOCKED INPUT
 DCM ON = DOOR OPEN / UNLOCKED
 DCM OFF = DOOR CLOSED / LOCKED



ENGINEER RUN BUTTON IS FEATURE OF ATTENDANT CONTROL BOX. LINKING PLUGS FITTED WHEN LIFT IS IN NORMAL SERVICE.

NOTE:
 CABIN LIGHTS WILL SWITCH OFF AFTER 3 MINUTES OF INACTIVITY

NAME: J.NICHOLLS DATE: 30/05/14
 CHECKED: M.HOOD DATE: 30/05/14

PICCOLO DIRECT
 MAIN KEY DIAGRAM
 HYDRAX PUMP WITH L10 VALVE

HEAD OFFICE:
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 Andover Hampshire
 SP10 2NX England

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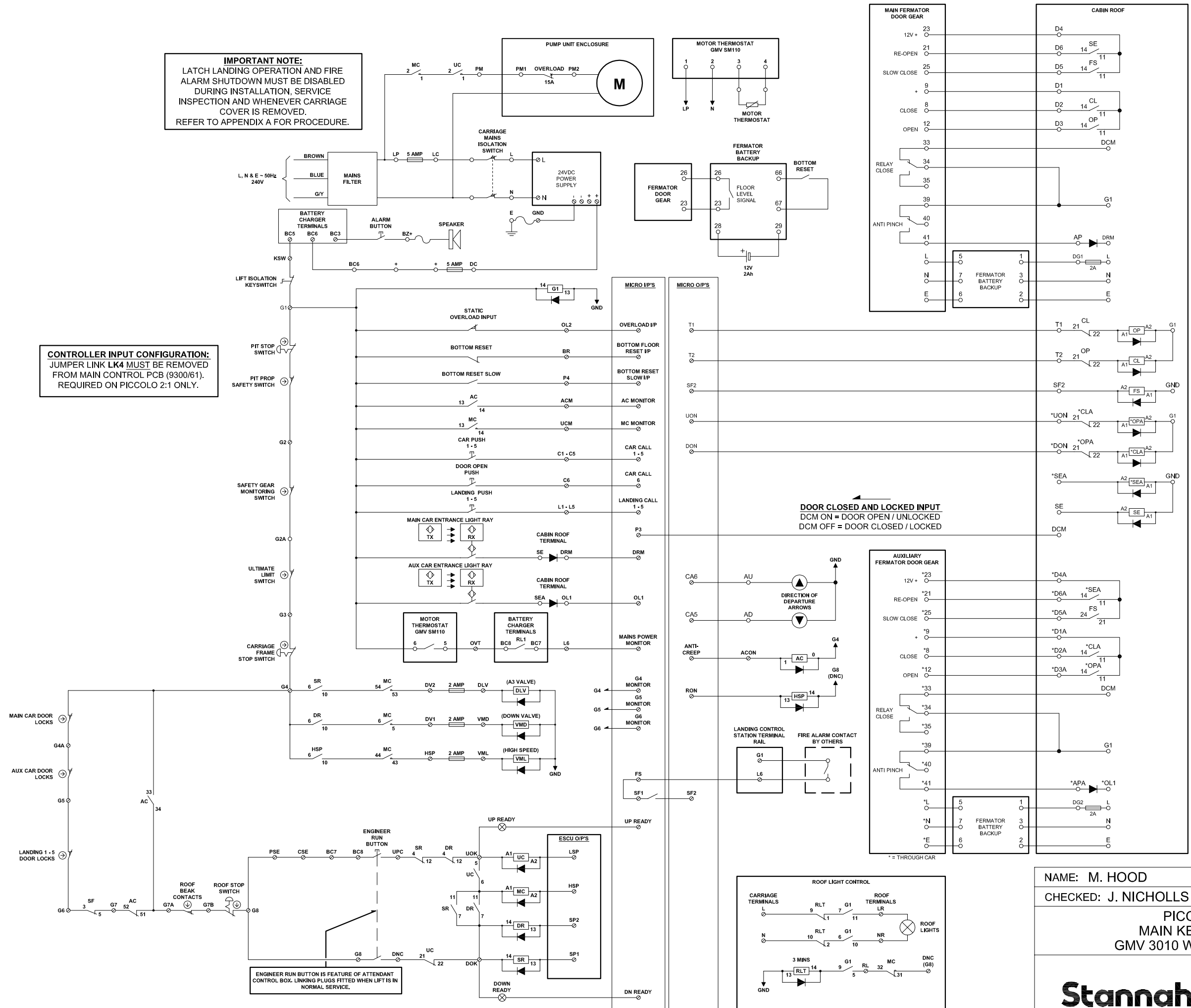
Tel: 01264 339090 Fax: 337942

DRAWING NO: 9448-073 REV: B

REV B: BOTTOM RESET SWITCH CHANGED TO N/C CONTACT. MH 26/08/16 A5798.
 REV A: APPENDIX A NOW REFERENCED IN IMPORTANT NOTE TEXT. CARRIAGE FRAME STOP SWITCH ADDED. FERMATOR BATTERY BACKUP DETAILS ADDED. MH 15/03/16 A5735.

IMPORTANT NOTE:
LATCH LANDING OPERATION AND FIRE ALARM SHUTDOWN MUST BE DISABLED DURING INSTALLATION, SERVICE INSPECTION AND WHENEVER CARRIAGE COVER IS REMOVED. REFER TO APPENDIX A FOR PROCEDURE.

CONTROLLER INPUT CONFIGURATION:
JUMPER LINK LK4 MUST BE REMOVED FROM MAIN CONTROL PCB (9300/61), REQUIRED ON PICCOLO 2:1 ONLY.



DOOR CLOSED AND LOCKED INPUT
DCM ON = DOOR OPEN / UNLOCKED
DCM OFF = DOOR CLOSED / LOCKED

ENGINEER RUN BUTTON IS FEATURE OF ATTENDANT CONTROL BOX. LINKING PLUGS FITTED WHEN LIFT IS IN NORMAL SERVICE.

NAME: M. HOOD DATE: 22/09/15
CHECKED: J. NICHOLLS DATE: 22/09/15

PICCOLO 2:1
MAIN KEY DIAGRAM
GMV 3010 WITH DLV VALVE

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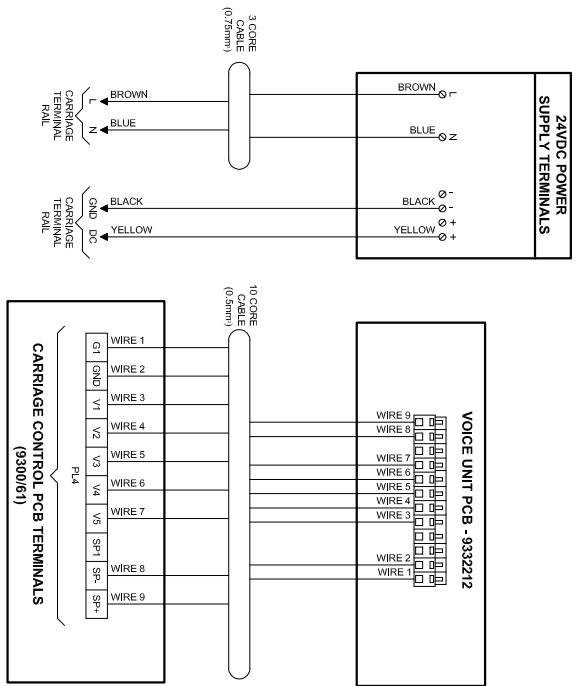
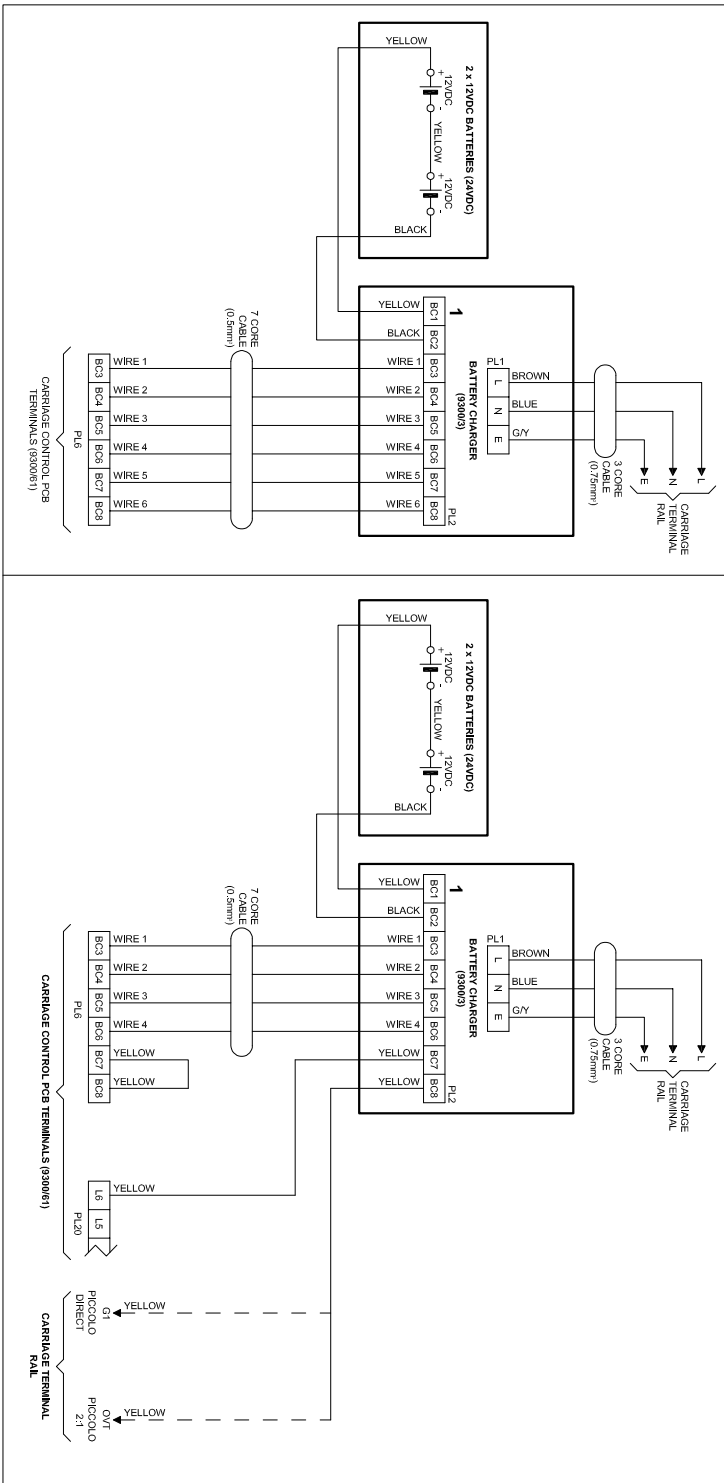
Tel: 01264 339090 Fax: 337942

DRAWING NO: 9448-094 REV: A

SL+

WIRING DEPENDING ON LIFT MODEL

PICCOLO



NAME: J.NICHOLLS

DATE: 08/01/2013

CHECKED: M.HOOD

DATE: 08/01/2013

MIDLIFT MULTI-FLOOR BOARD
CARRIAGE CONTROL TRAY WITH POWER SUPPLY
CONNECTION DETAILS

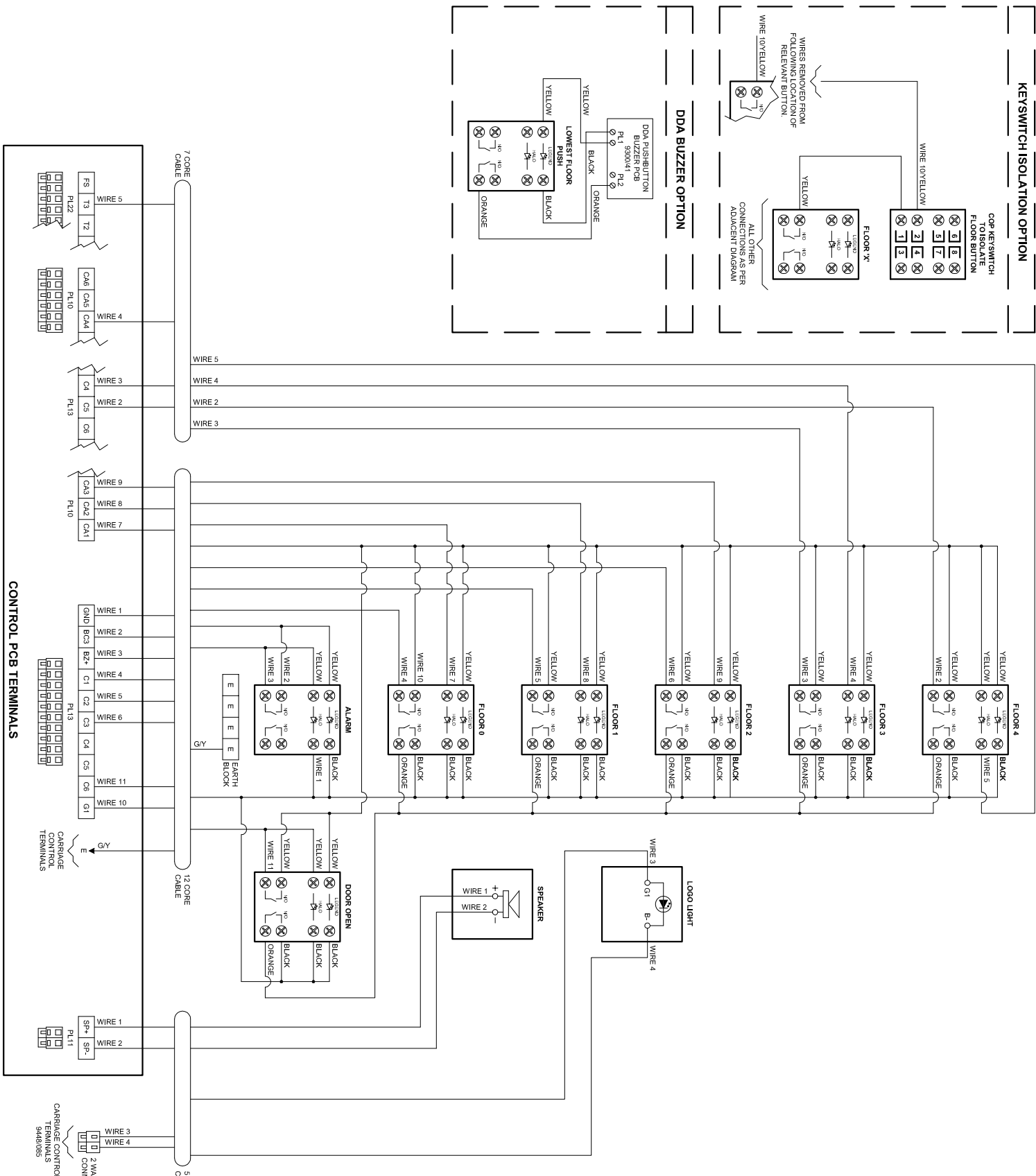
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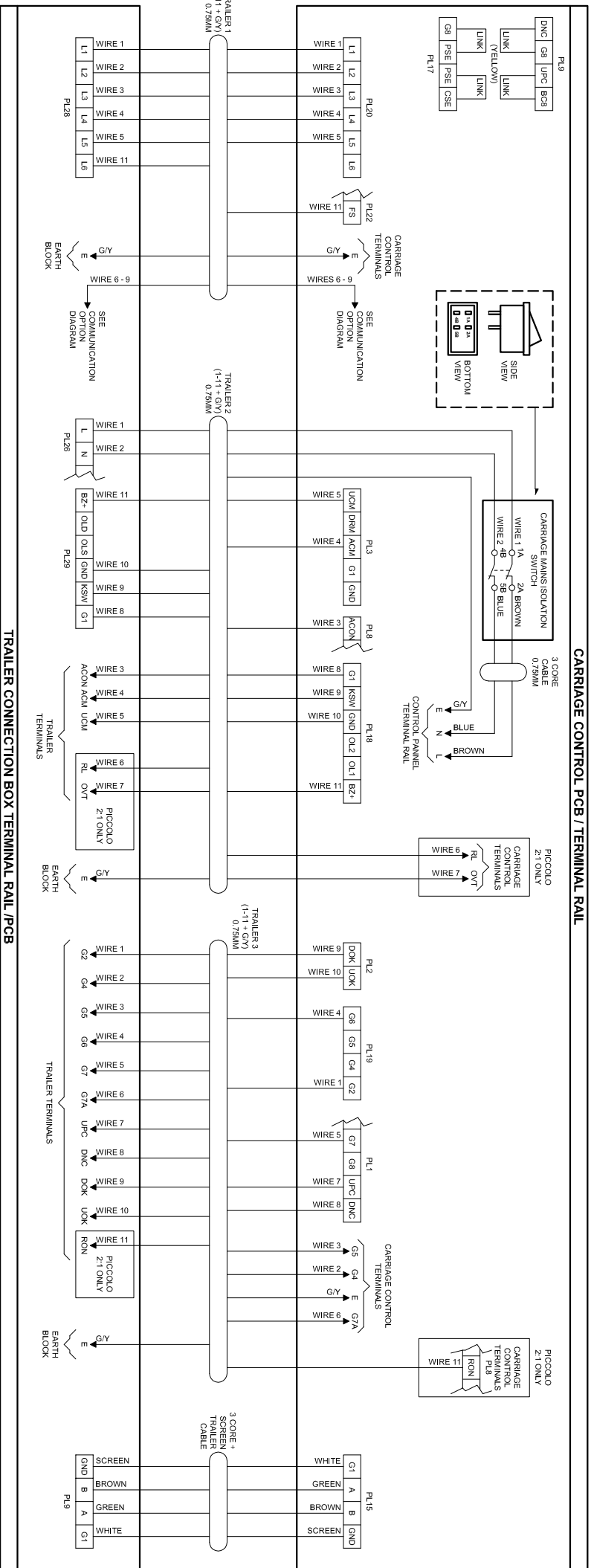
Tel: 01264 339090 Fax: 337942

DRAWING NO: 9448-059

REV: B

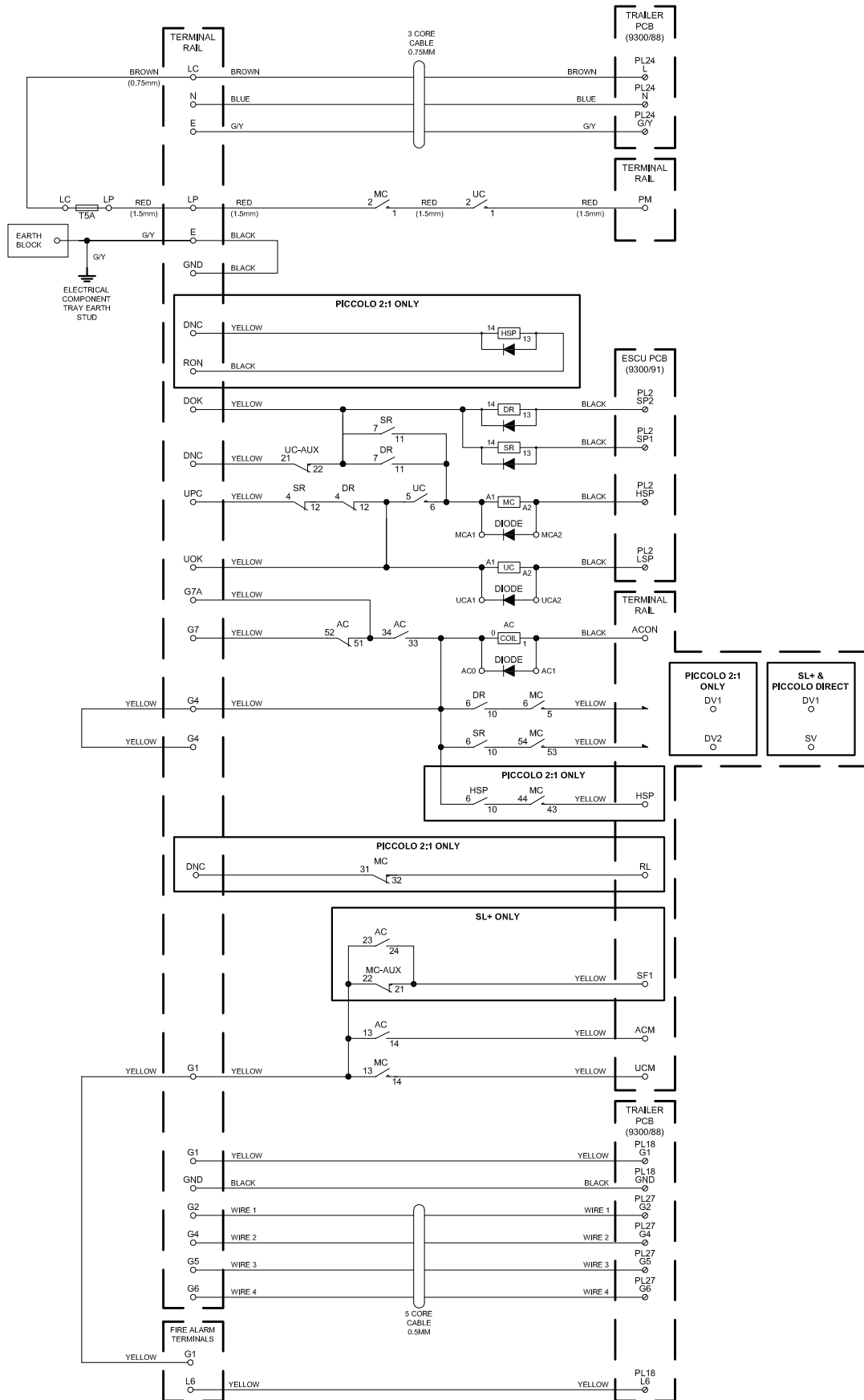


NAME: J.NICHOLLS	DATE: 02/06/14
CHECKED: M.HOOD	DATE: 02/06/14
MIDLIFT PICCOLO CONTROLLER CARRIAGE COVER CONNECTION DETAILS	
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HEAD OFFICE: Anton Mill Andover Hampshire SP10 2NX England Tel: 01264 339090 Fax: 337942	
DRAWING NO: 9448-074	REV: B



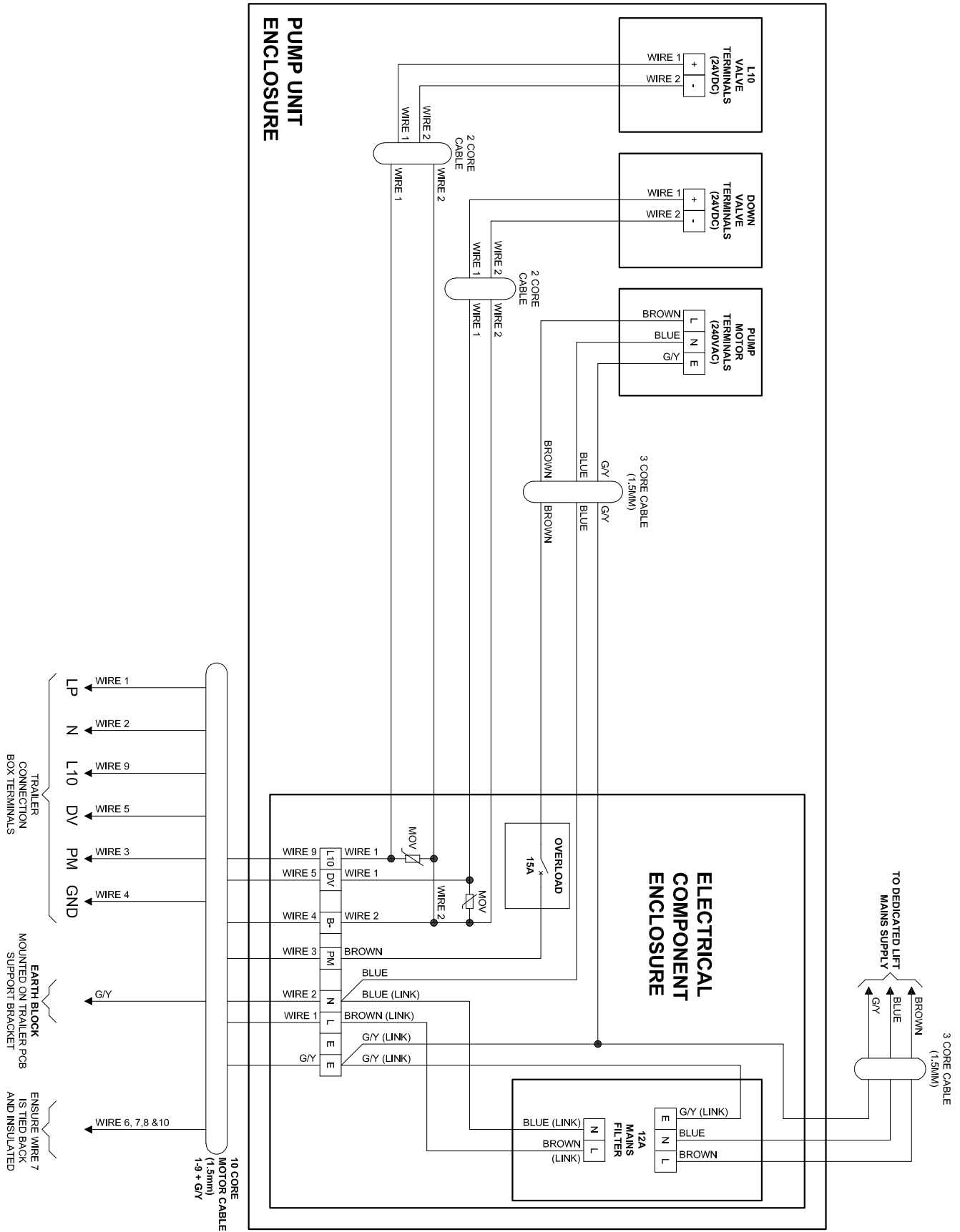
TRAILER CONNECTION BOX TERMINAL RAIL / PCB

NAME: J. NICHOLLS	DATE: 08/09/14
CHECKED: M. HOOD	DATE: 08/09/14
MIDLIFT PICCOLO TRAILER CABLE CONNECTION DETAILS	
HEAD OFFICE: Anton Mill Andover Hampshire SP10 2NX England Tel: 01264 339090 Fax: 337942	
DRAWING NO: 9448-084	REV: A




NAME: J. NICHOLLS	DATE: 01/12/11
CHECKED: M. HOOD	DATE: 01/12/11
TRAILER CONNECTION BOX WIRING DETAILS	
Stannah	
HEAD OFFICE: Anton Mill Andover Hampshire SP10 2NX England	
Tel: 01264 339090 Fax: 337942	
DRAWING NO: 9448-056	REV: B

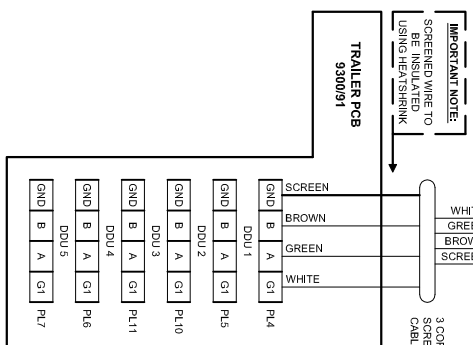
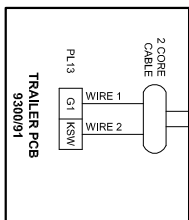
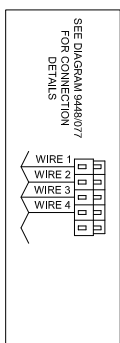
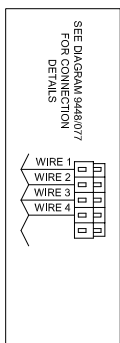
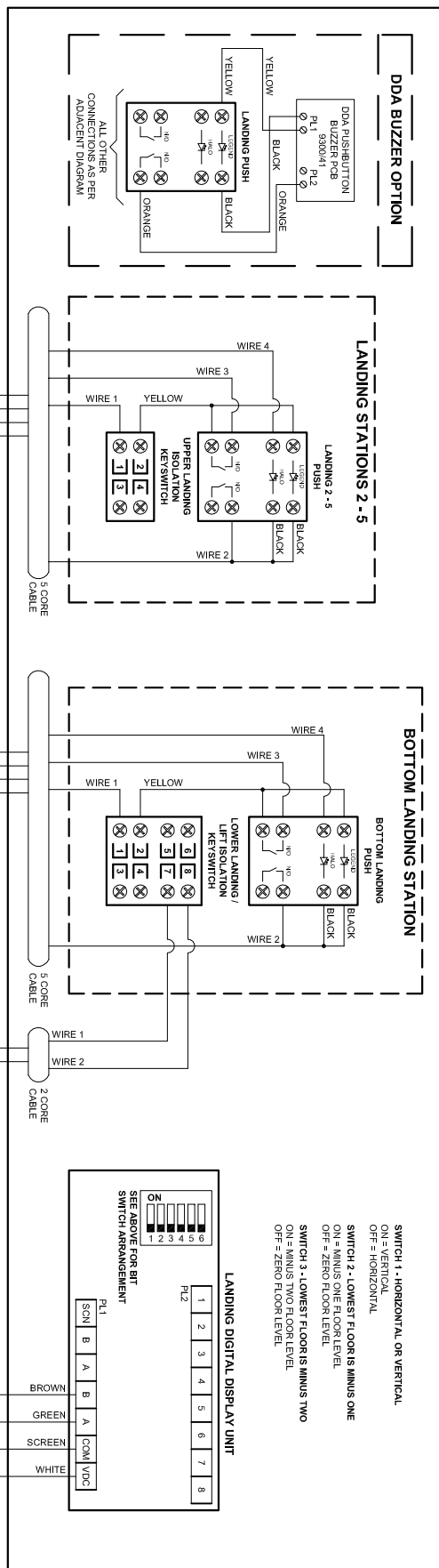
REV B: PICCOLO 2:1 DETAILS ADDED AND FORMAT OF DRAWING CHANGED TO SCHEMATIC LAYOUT. MH 19/03/16 A5735.
 REV A: CONTACTS '7' AND '11' ON RELAYS SR AND DR ARE NOW IN PARALLEL INSTEAD OF SERIES. JN 19/06/13 A5511.



REV D: MOV'S ADDED DUE TO LACK OF NOISE SUPPRESSION ON DC VALVES. 31/10/2017 JN A6108.
 REV C: OVERLOAD RATE UPDATED TO INCLUDE PICCOLO & DIODES REMOVED. 25/11/2014 JN
 REV B: CABLE LOCATION CHANGED TO WIRING INTO TERMINALS INSTEAD OF BOARD. ECN A5505. 27/06/2013 JN
 REV A: WIRE 6 USED FOR L10, CHANGED TO WIRE 9 AND DIODE POSITION CHANGED. ECN A5395. 18/04/2013 JN

NAME: J.NICHOLLS	DATE: 09/10/12
CHECKED: M.HOOD	DATE: 09/10/12
HYDRAX PUMP MOTOR WITH L10 VALVE (PICCOLO DIRECT AND SL+)	
	
HEAD OFFICE: Anton Mill Andover Hampshire SP10 2NX England	
Tel: 01264 339090 Fax: 337942	
DRAWING NO: 9448-062	REV: D

LANDING CONTROL STATION



NAME: J.NICHOLLS DATE: 02/06/14
 CHECKED: M.HOOD DATE: 02/06/14

**MIDLIFT PICCOLO
 LANDING STATION WITH CALL ISOLATION
 CONNECTION DETAILS**



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 Andover Hampshire
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Tel: 01264 339090 Fax: 337942

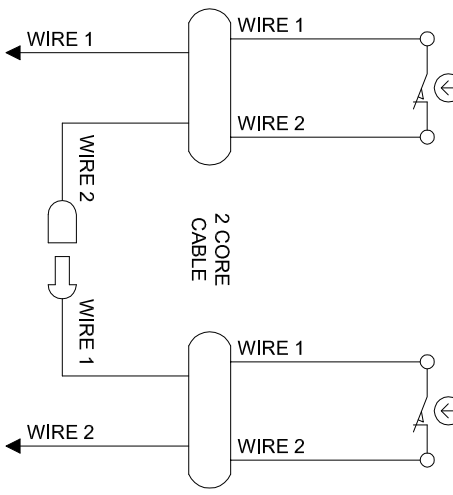
DRAWING NO: 9448-075

REV: B

THROUGH CAR AT SAME LEVEL

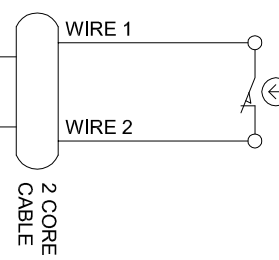
THROUGH CAR
MAIN
LANDING LOCK

THROUGH CAR
AUX
LANDING LOCK

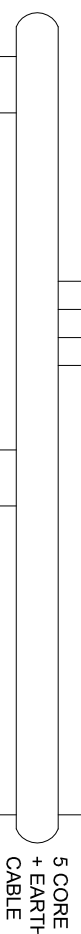
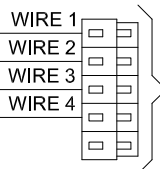


- G5 THROUGH CAR AT LEVEL 0 S1
- S1 THROUGH CAR AT LEVEL 1 S2
- S2 THROUGH CAR AT LEVEL 2 S3
- S3 THROUGH CAR AT LEVEL 3 S4
- S4 THROUGH CAR AT LEVEL 4 S5
- S5 THROUGH CAR AT LEVEL 5 G6

SINGLE ENTRY
MAIN
LANDING LOCK



FOR MALE PLUG CONNECTION SEE -
9448-075 LANDING STATION WITH
CALL ISOLATION
9448-076 LANDING STATION WITHOUT
CALL ISOLATION

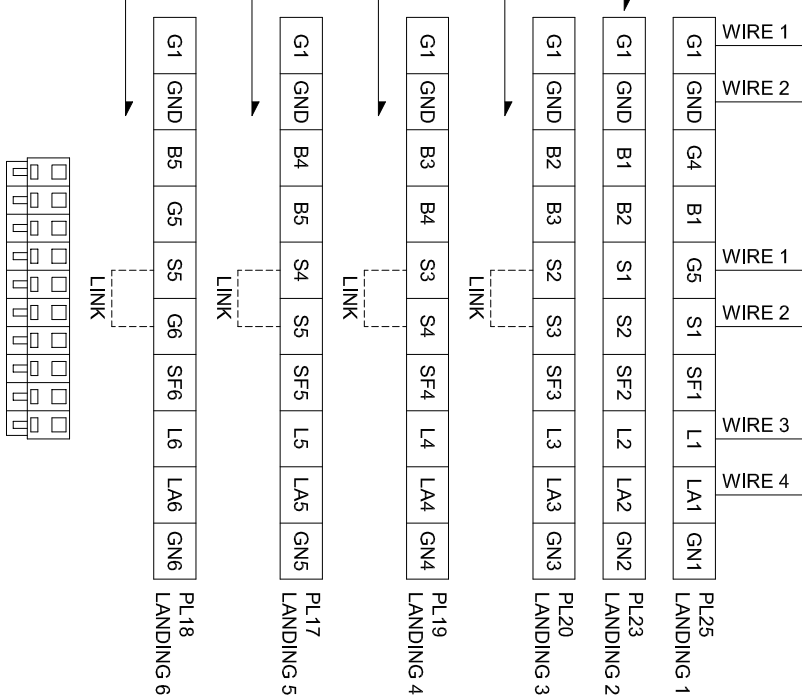


DOOR
FRAME
EARTH
STUD
G/Y

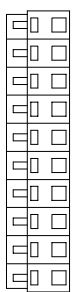
EARTH
BLOCK
MOUNTED ON
TRAILER PCB
SUPPORT
BRACKET
G/Y

REPEAT ABOVE WIRING
FOR REMAINING FLOORS

- IF LIFT IS LESS THAN 3 FLOORS - ADD LINK AS SHOWN
- IF LIFT IS LESS THAN 4 FLOORS - ADD LINK AS SHOWN
- IF LIFT IS LESS THAN 5 FLOORS - ADD LINK AS SHOWN
- IF LIFT IS LESS THAN 6 FLOORS - ADD LINK AS SHOWN

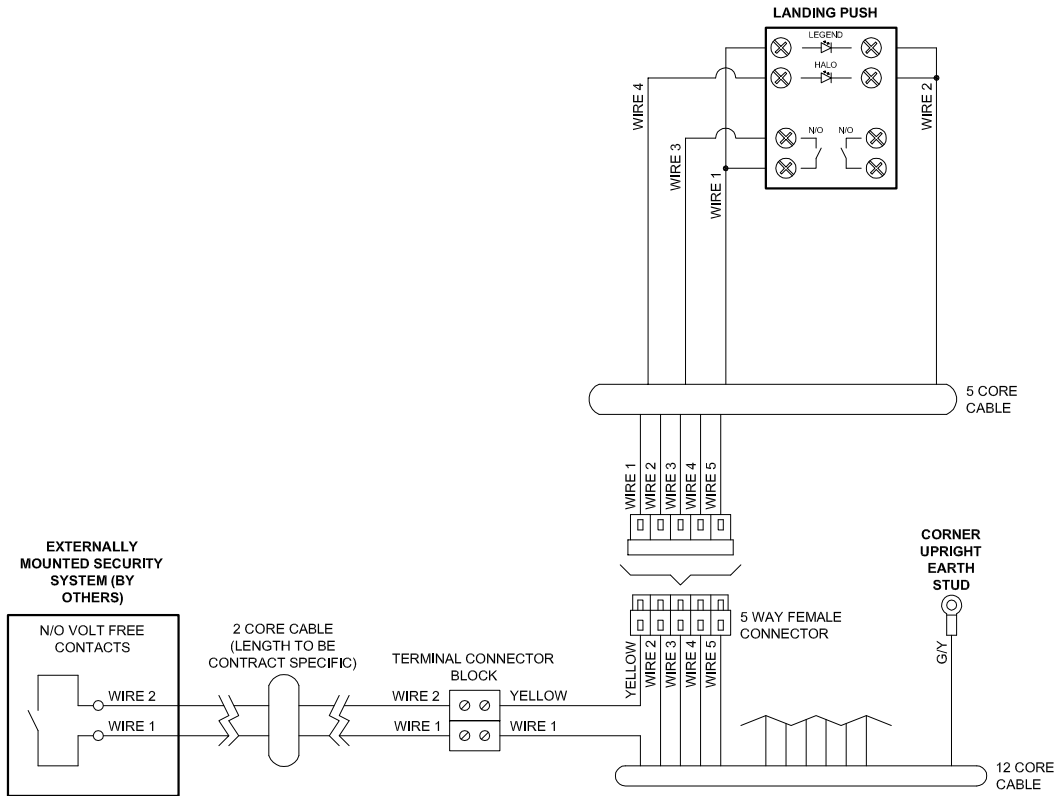


TRAILER PCB TERMINALS

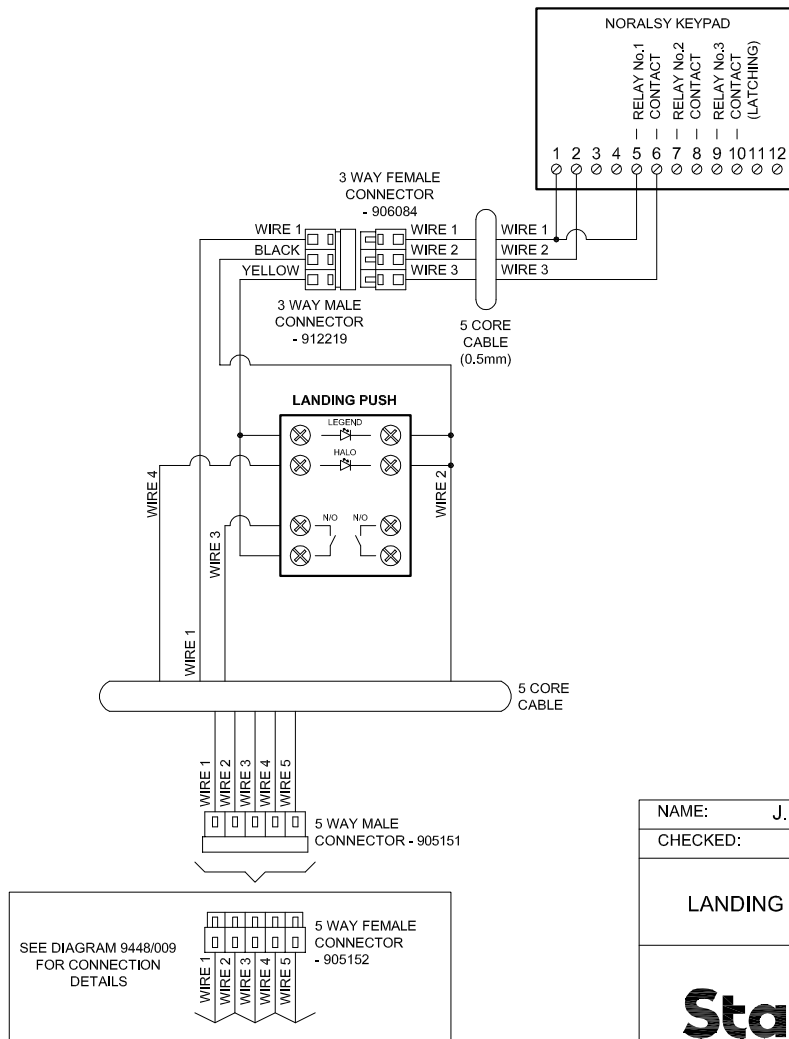


NAME: J. NICHOLLS	DATE: 02/06/14
CHECKED: M. HOOD	DATE: 02/06/14
MIDLIFT PICCOLO LANDING STATION LOOM CONNECTION DETAILS	
HEAD OFFICE: Anton Mill Andover Hampshire SP10 2NX England	
Tet: 01264 339090 Fax: 337942	
DRAWING NO: 9448-077	REV: A

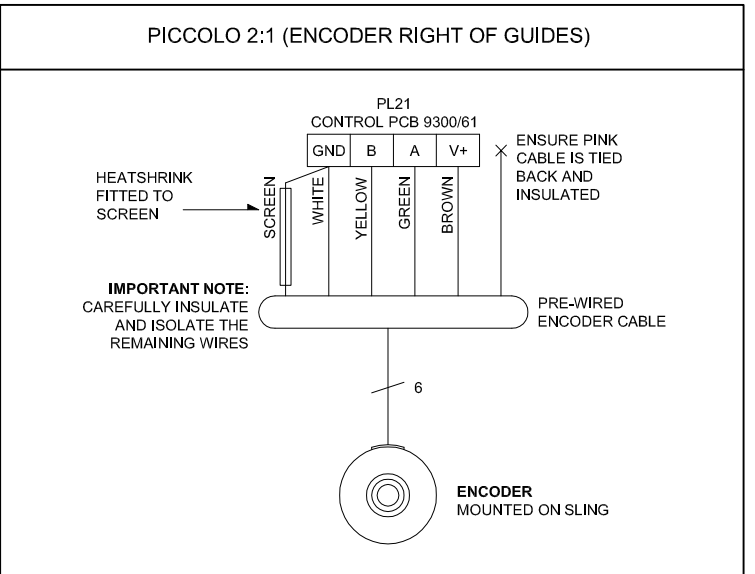
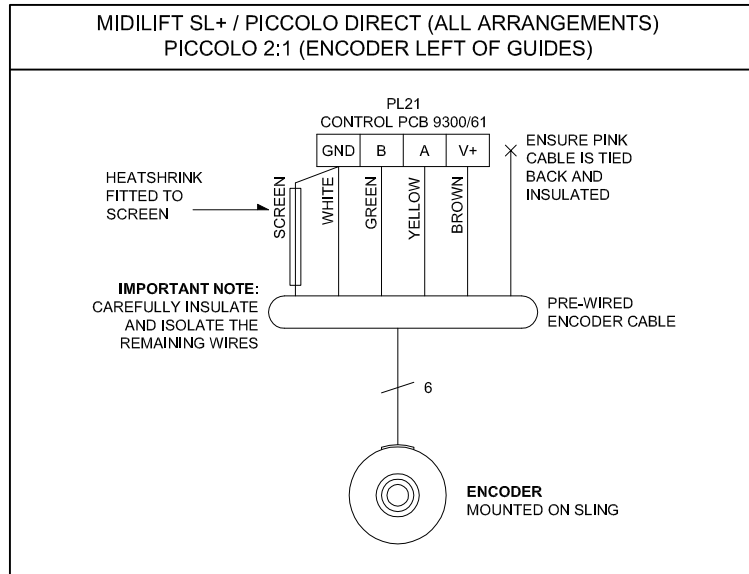
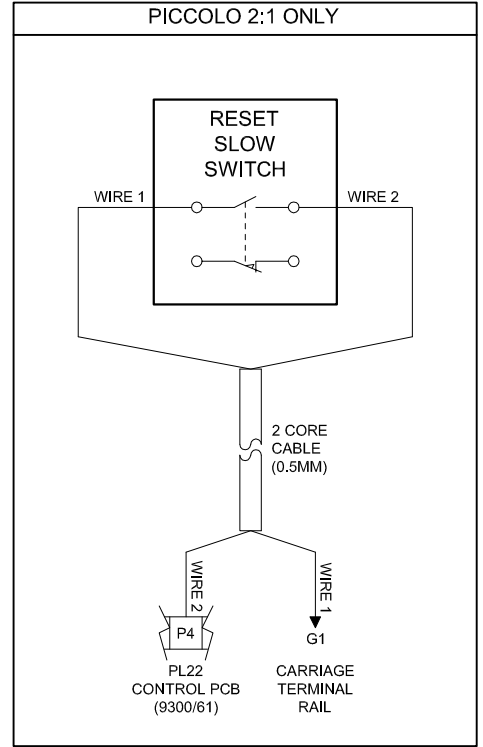
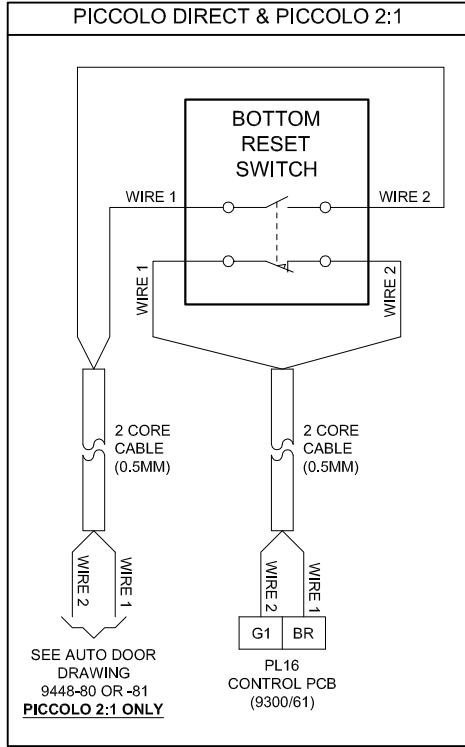
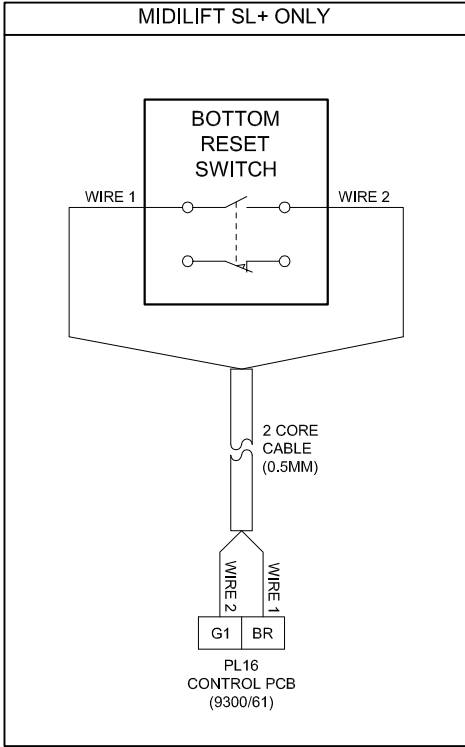
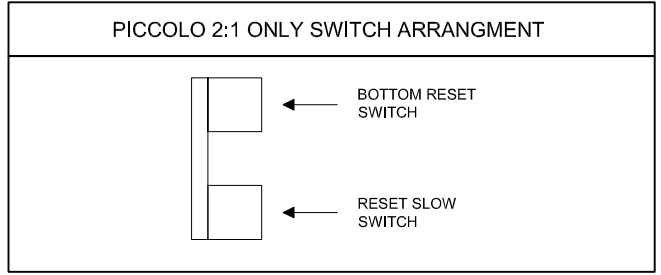
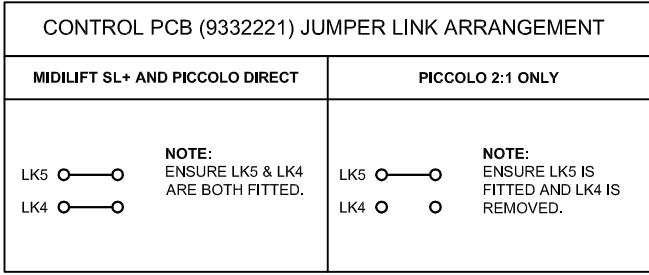
SECURITY SYSTEM BY OTHERS



NORALSY KEYPAD OPTION

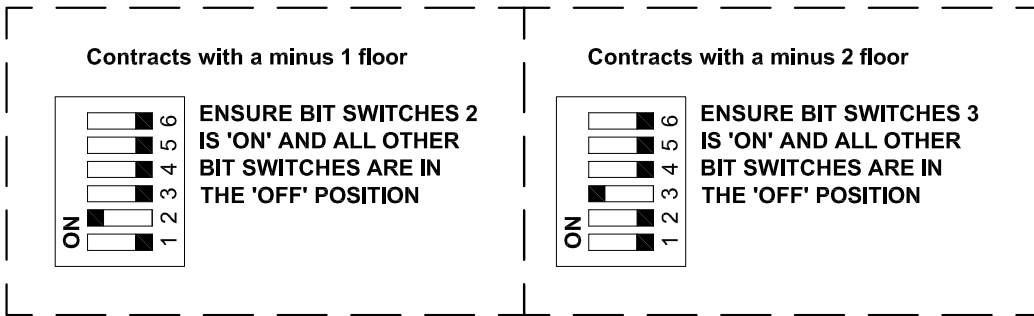


NAME: J.NICHOLLS	DATE: 15/02/16
CHECKED: M.HOOD	DATE: 15/02/16
MIDLIFT PICCOLO	
LANDING STATION WITH SECURITY BY OTHERS	
CONNECTION DETAILS	
Stannah	
HEAD OFFICE: Anton Mill Andover Hampshire SP10 2NX England	
Tel: 01264 339090 Fax: 337942	
DRAWING NO: 9448-086	REV:

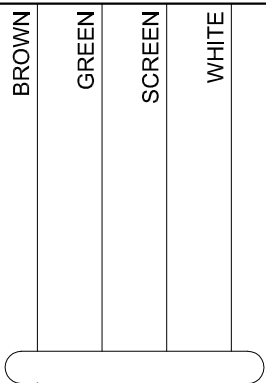
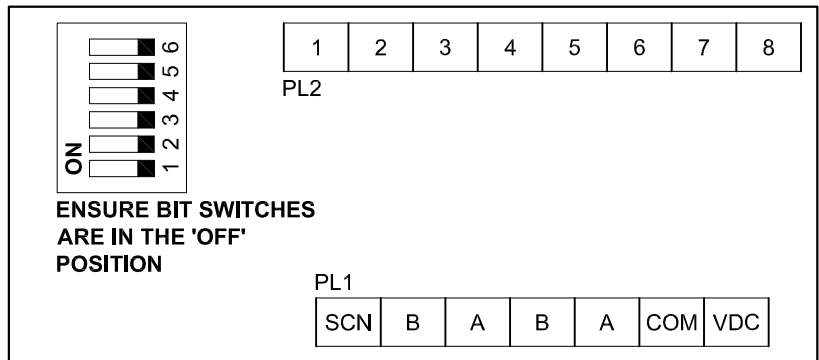


NAME: J.NICHOLLS	DATE: 16/08/12
CHECKED: M.HOOD	DATE: 16/08/12
RESET SWITCH AND ENCODER CONNECTION DETAILS	
HEAD OFFICE: Anton Mill Andover Hampshire SP10 2NX England	
Tel: 01264 339090 Fax: 337942	
DRAWING NO: 9448-057	REV: C

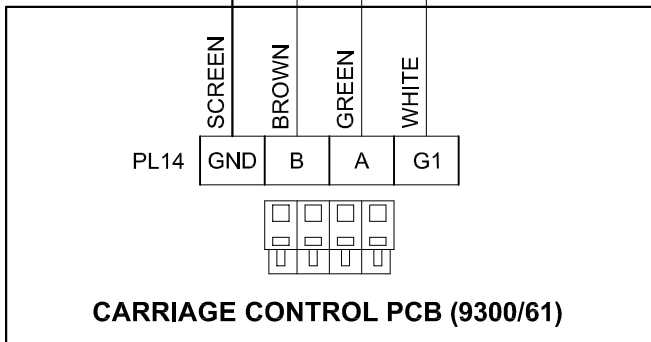
REV C: LK4 & LK5 NOTE ADDED. 2 CORE DOOR GEAR CONNECTION SHOWN. JN 06/11/17 A6022
 REV B: PICCOLO DIRECT BOTTOM RESET SWITCH CHANGED TO N/C. MH 25/08/16 A5798.
 REV A: RESET AND RESET SLOW SWITCHES CHANGED TO ROCKER SWITCH. MH 08/03/16 A5735.



CARRIAGE DIGITAL DISPLAY UNIT



IMPORTANT NOTE:
SCREENED WIRE TO BE INSULATED USING HEATSHRINK



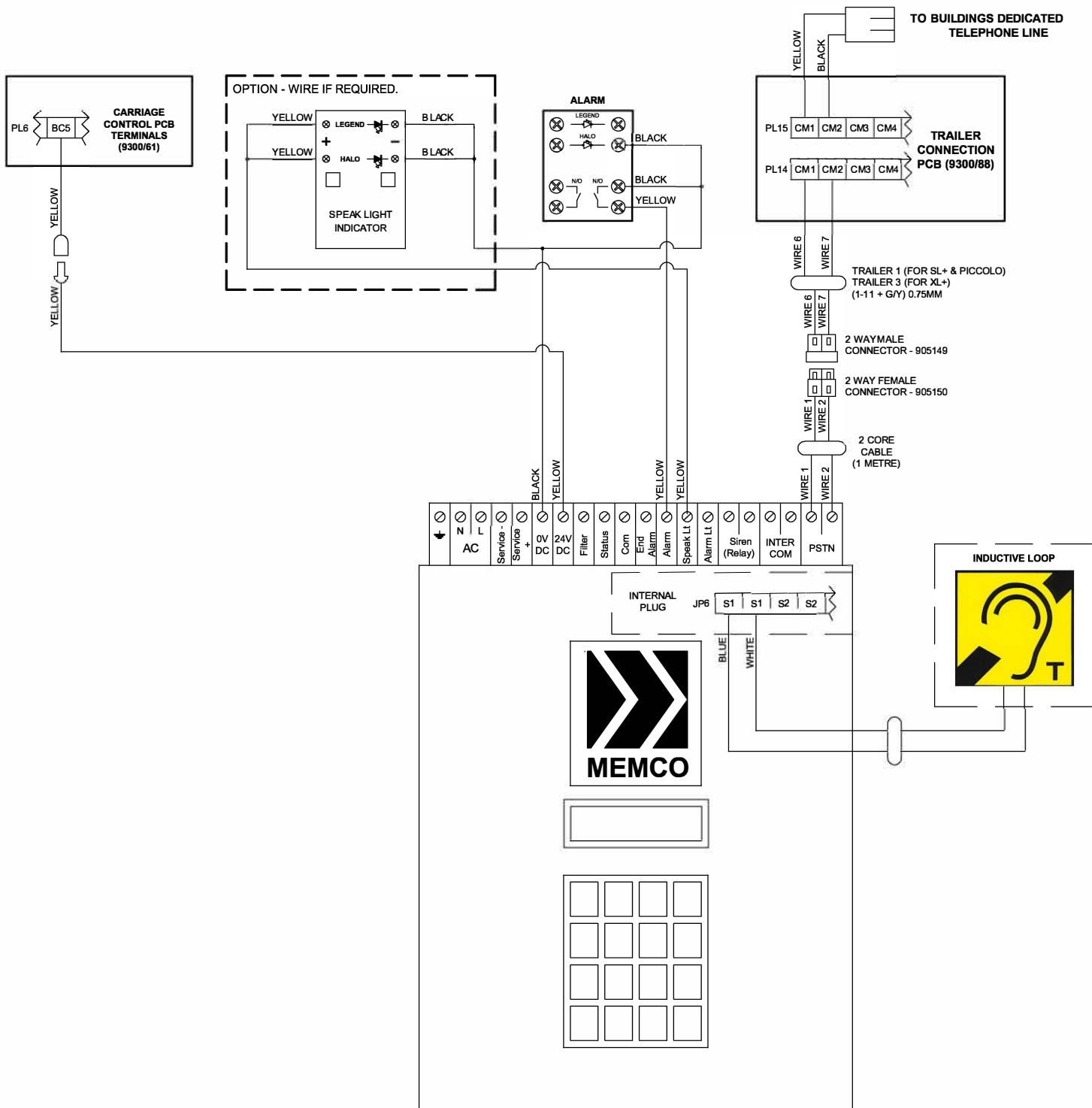
NAME: J.NICHOLLS	DATE: 22/10/09
CHECKED: M.HOOD	DATE: 22/10/09
<p>MIDLIFT XL+ CARRIAGE DDU CONNECTION DETAILS</p>	
<p>HEAD OFFICE: Anton Mill Andover Hampshire SP10 2NX England</p>	
<p>Tel: 01264 339090 Fax: 337942</p>	
DRAWING NO: 9448-012	REV: C

REV C: CABLE CHANGED ON 3 CORE + SCREEN. JN 09/06/15 ECN A5667
 REV B: BIT SWITCH ARRANGEMENT ADDED. 27/05/14 JN. A5573
 REV A: UPDATED FOR NEW LOGO AND TEXT FONT. 29/07/2010 JN.

IMPORTANT NOTE:

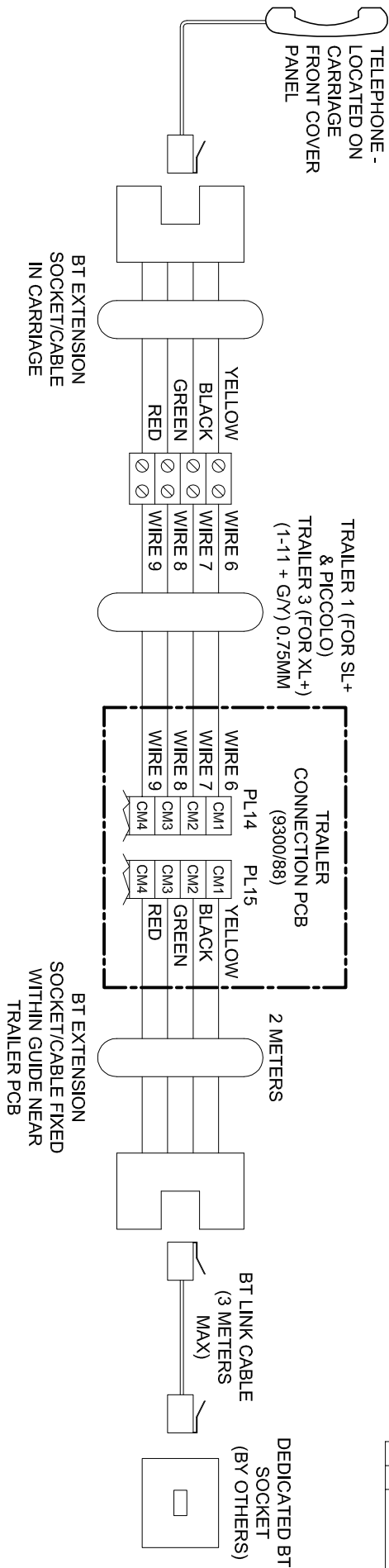
PLEASE ENSURE MENU 26 IN QUICK SET UP IS SET AS FOLLOWED:

- **WITHOUT GSM - SET TO 8**
- **WITH GSM - SET TO 24**



NAME: J.NICHOLLS	DATE: 17/02/10
CHECKED: M.HOOD	DATE: 17/02/10
MIDLIFT CONNECTION DETAILS AUTODIAL CONNECTION DETAILS	
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HEAD OFFICE: Anton Mill Andover Hampshire SP10 2NX England	
Tel: 01264 339090 Fax: 337942	
DRAWING NO: 9448-014	REV: F

REV F: PICTOGRAM DETAIL ADDED. MH 29/05/19 A6248
 REV E: PROGRAMMING DETAILS ADDED. JN 24/10/16 A5823
 REV D: TRAILER NUMBER UPDATED TO SHOW SL+. 27/05/2014 JN A5573.
 REV C: INDUCTIVE LOOP PICTURE ADDED. 30/07/2012 JK A5299.
 REV B: WIRING COLOUR CORRECTED ON THE INDUCTIVE LOOP. 11/07/2011 JN A5007.
 REV A: WIRING CORRECTED TO LINK 0VDC TO GND & UPDATED FOR NEW LOGO AND TEXT
 FONT. 29/07/2010 JN.



NAME: J.NICHOLLS	DATE: 17/02/10
CHECKED: M.HOOD	DATE: 17/02/10

MIDLIFT XL+
TELEPHONE CONNECTIONS DETAILS

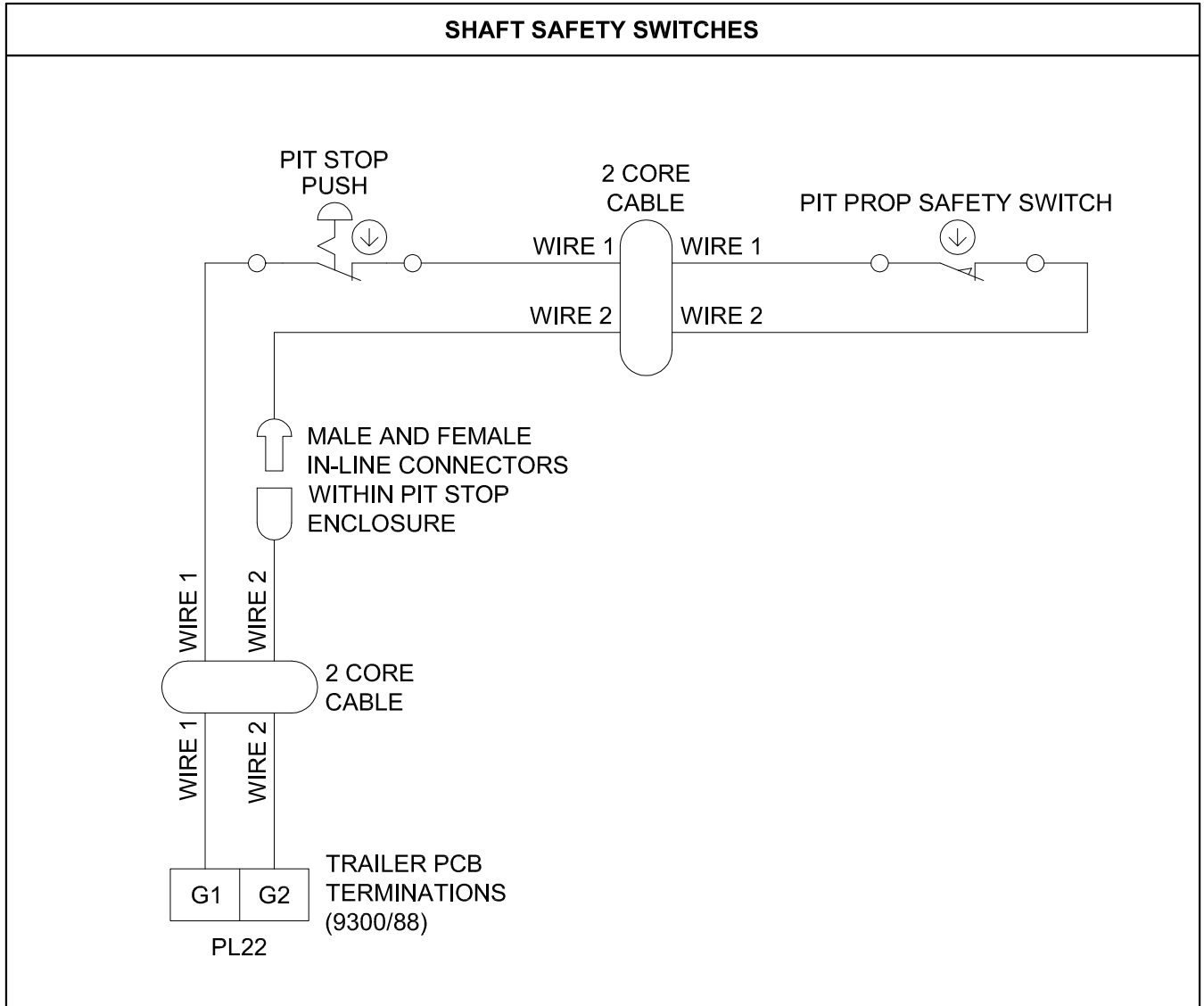
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SP10 2NX England
Tel: 01264 339090 Fax: 337942

DRAWING NO: 9448-015

REV: C

REV C: TRAILER NUMBER UPDATED TO SHOW SL+. 27/05/2014 JN A5573.
 REV B: ORDER OF BT EXTENSION SOCKET CABLE WIRES CHANGED TO REFLECT MEMCOM INSTALLATION MANUAL DRAWINGS. 05/11/12 JK. A5364
 REV A: UPDATED FOR NEW LOGO AND TEXT FONT. 29/07/2010 JN.



NAME: M.HOOD	DATE: 01/10/07
CHECKED: R.BAUGH	DATE: 01/11/07

MIDLIFT SL
 MULTI-FLOOR CONTROLLER
 PIT STOP / PROP CONNECTION DETAILS

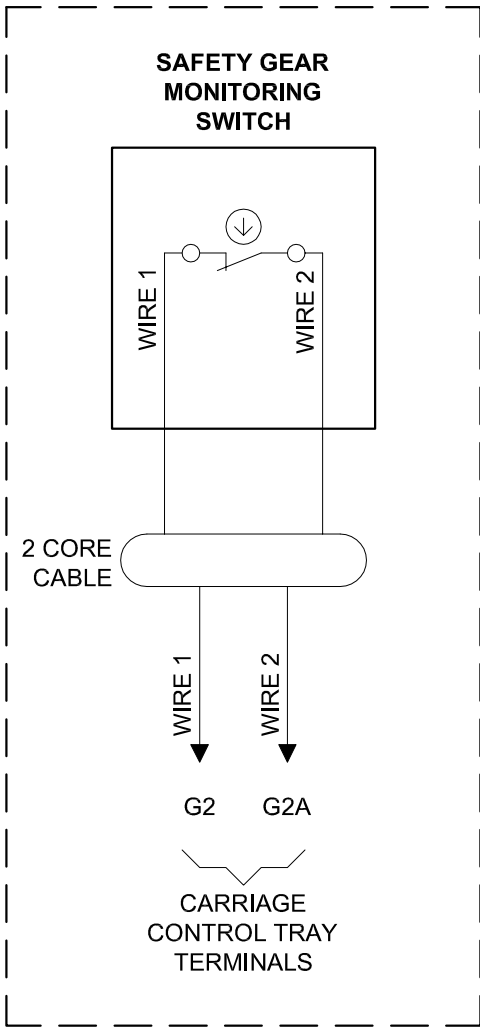
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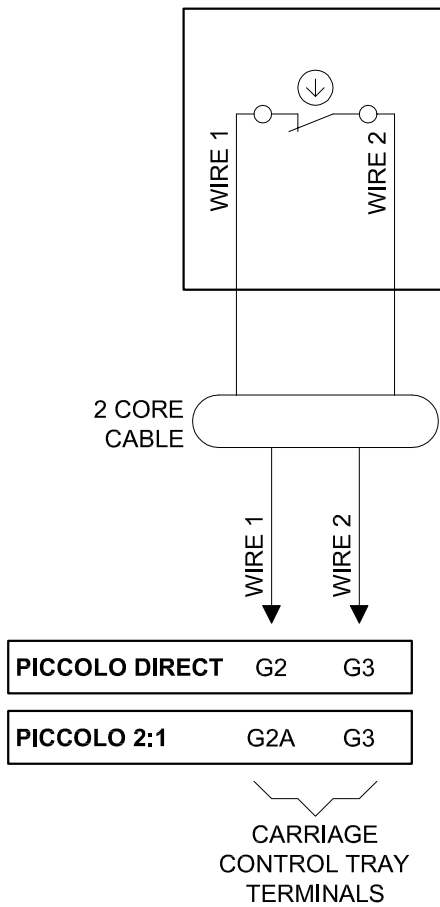
Tel: 01264 339090 Fax: 337942

DRAWING NO: 9446-009	REV: B
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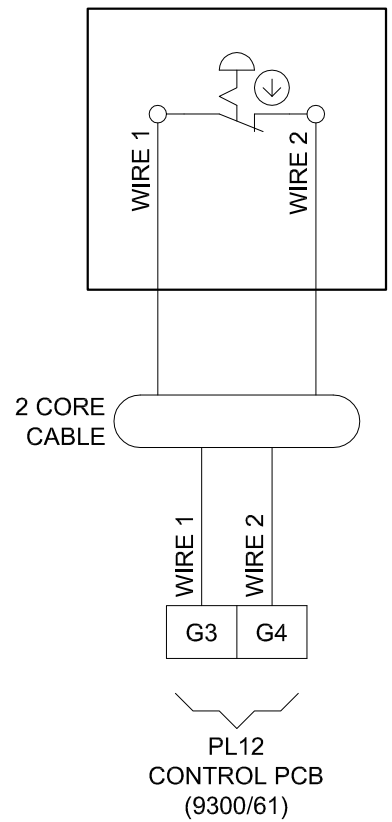
PICCOLO 2:1 ONLY



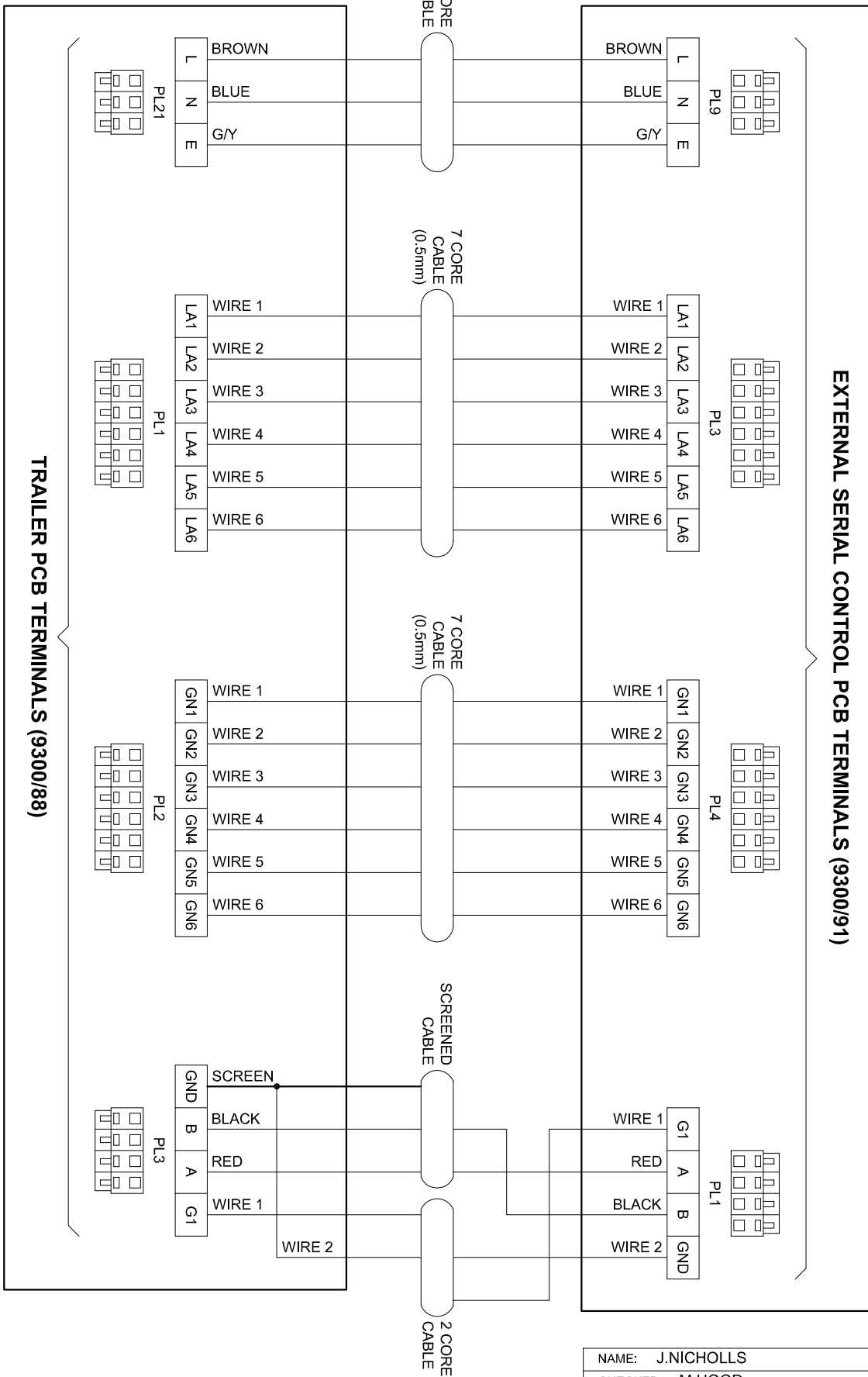
ULTIMATE LIMIT SWITCH



CARRIAGE FRAME STOP SWITCH




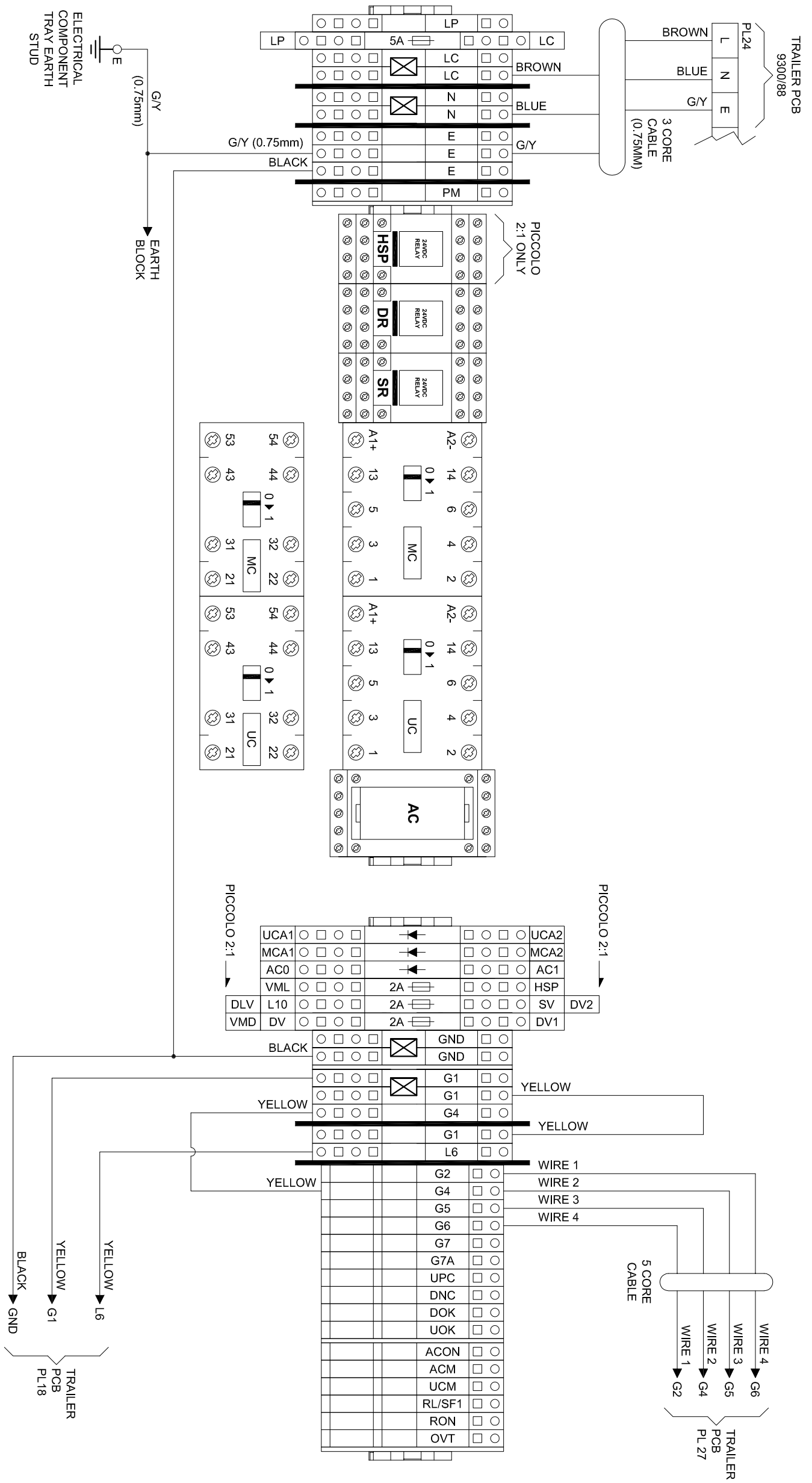
NAME: M.HOOD	DATE: 17/03/16
CHECKED: J.NICHOLLS	DATE: 17/03/16
MIDLIFT PICCOLO SAFETY GEAR MONITOR / ULTIMATE LIMIT AND CARRIAGE FRAME STOP SWITCHES	
Stannah	
HEAD OFFICE: Anton Mill Andover Hampshire SP10 2NX England Tel: 01264 339090 Fax: 337942	
DRAWING NO: 9448-099	REV:




EXTERNAL SERIAL CONTROL PCB TERMINALS (9300/91)

TRAILER PCB TERMINALS (9300/88)

NAME: J.NICHOLLS	DATE: 17/02/10
CHECKED: M.HOOD	DATE: 17/02/10
MIDLIFT XL+ EXTERNAL SERIAL CONTROL PCB	
	
HEAD OFFICE: Anton Mill Andover Hampshire SP10 2NX England Tel: 01264 339090 Fax: 337942	
DRAWING NO: 9448-023	REV: A

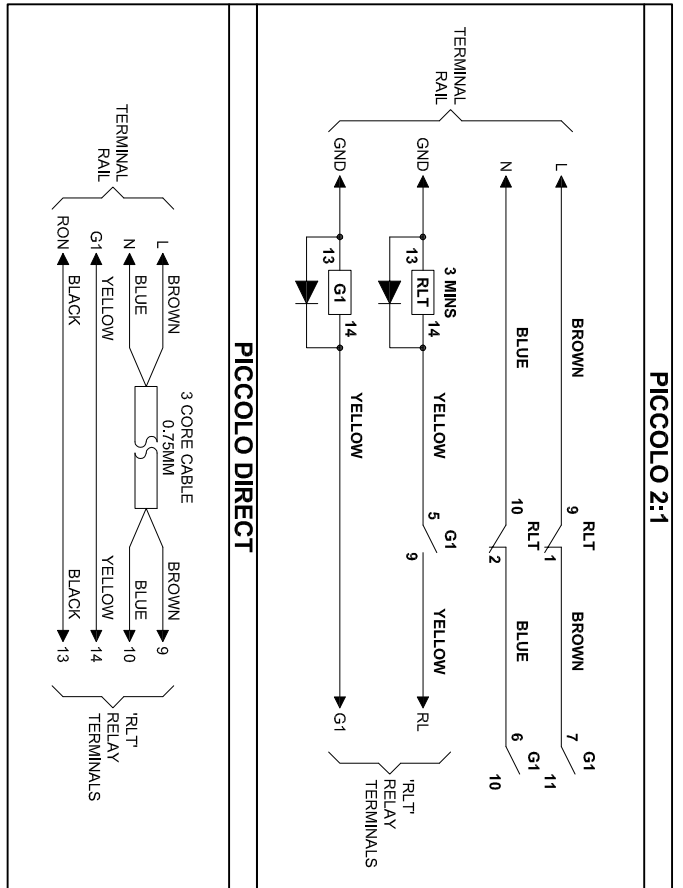
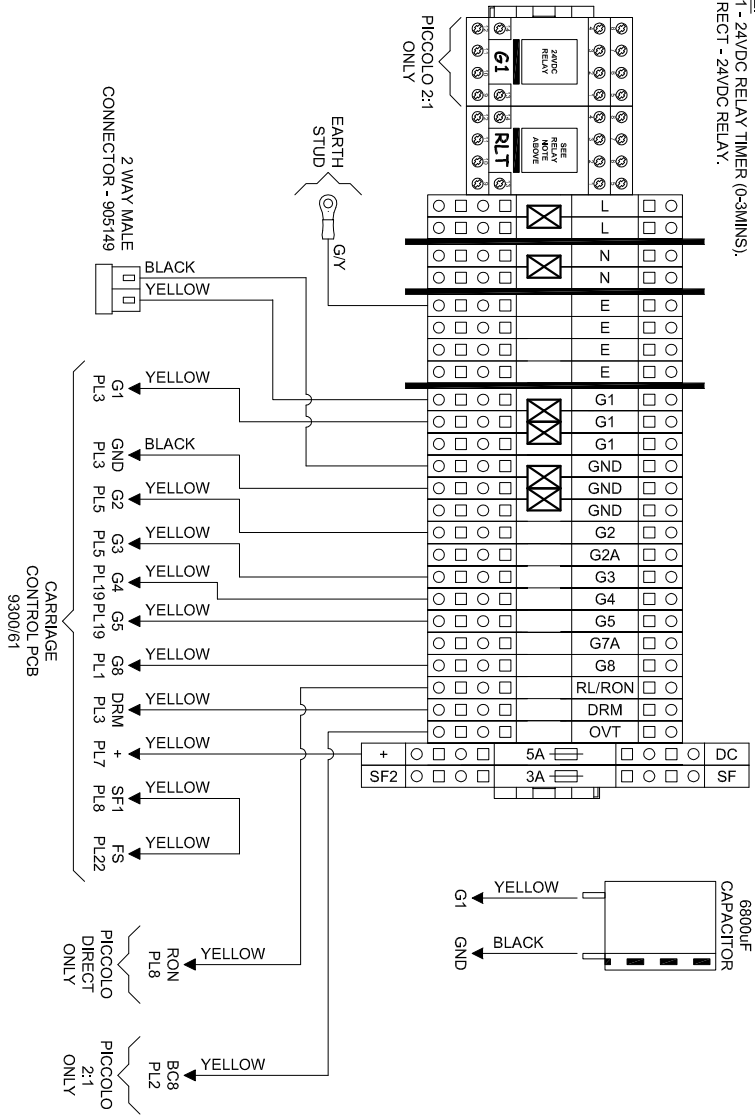



NAME: J.NICHOLLS	DATE: 16/08/2012
CHECKED: M.HOOD	DATE: 16/08/2012
TRAILER CONNECTION BOX TERMINALS	
	
HEAD OFFICE: Anton Mill Andover Hampshire SP10 2NX England Tel: 01264 339090 Fax: 337942	
DRAWING NO: 9448-060	REV: B

REV B: PICCOLO 2:1 DETAILS ADDED. MH 08/03/16 A5735.

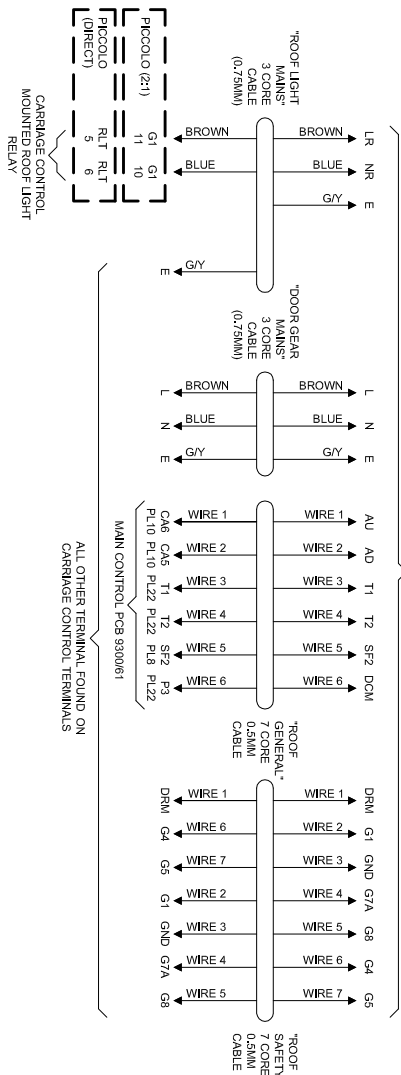
REV A: WIRING FOR ALARM REMOVED FROM DRAWING TO REFLECT NEW INTERCOM. 12/04/13 JK.

RELAY NOTE:
 PICCOLO 2:1 - 24VDC RELAY TIMER (0-3MINS).
 PICCOLO DIRECT - 24VDC RELAY.

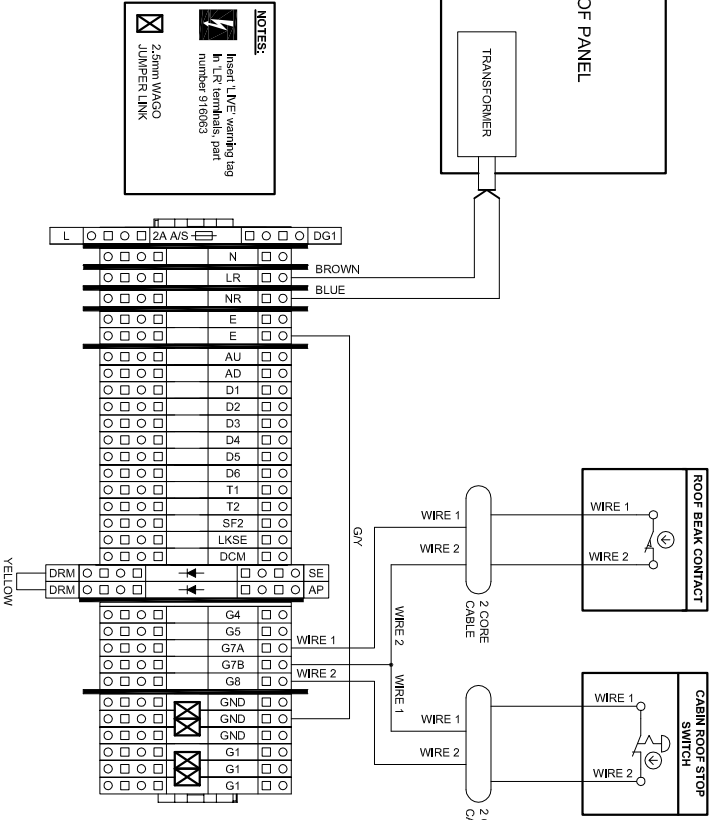


NAME: J.NICHOLLS	DATE: 23/09/14
CHECKED: M.HOOD	DATE: 23/09/14
MIDLIFT PICCOLO CARRIAGE CONTROL TRAY TERMINAL CONNECTION DETAILS	
	
HEAD OFFICE: Anton Mill Andover Hampshire SP10 2NX England Tel: 01264 339090 Fax: 337942	
DRAWING NO: 9448-085	REV: C

REV C: RELAY NOTE ADDED. JN 26/03/18. A6144
 REV B: PICCOLO 2:1 RLT WIRING CORRECTED. JN 11/01/17. A6022
 REV A: PICCOLO 2:1 DETAILS ADDED. MH 08/02/16. A5735

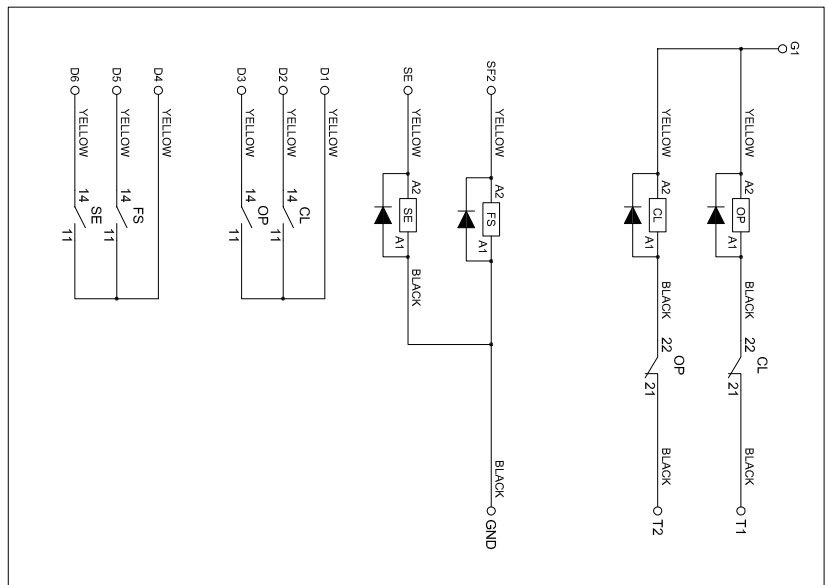


CARRIAGE ROOF TERMINALS



NOTES:
Insert L.V.E. warning tag in LVE terminals (see number 916663)

2.5mm WAGO JUMPER LINK



NAME: J.NICHOLLS	DATE: 18/07/14
CHECKED: M.HOOD	DATE: 18/07/14
MIDLIFT PICCOLO SINGLE ENTRANCE CARRIAGE ROOF CONNECTION DETAILS	
Stannah	
HEAD OFFICE: Anton Mill Andover Hampshire SP10 2NX England Tel: 01264 339090 Fax: 337942	
DRAWING NO: 9448-078	REV: A

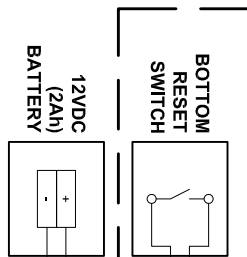
FERMATOR
DOOR CONTROLLER

NOTE: HAND VIEWED FROM LANDING.

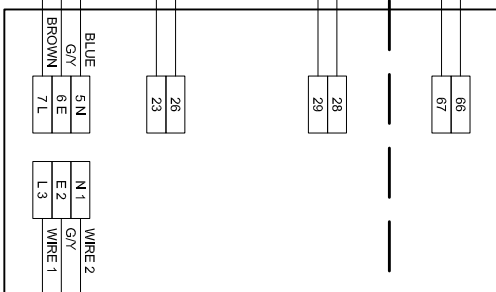
<p>BIT SWITCH SETTINGS FOR LEFT HAND SLAM DOORS.</p> <p>1 = OFF 2 = ON 3 = OFF 4 = ON</p>	<p>BIT SWITCH SETTINGS FOR RIGHT HAND SLAM DOORS.</p> <p>1 = OFF 2 = ON 3 = ON 4 = ON</p>
--	--

POWER RESET REQUIRED TO ACTIVATE CHANGE TO BIT SWITCH SETTING.

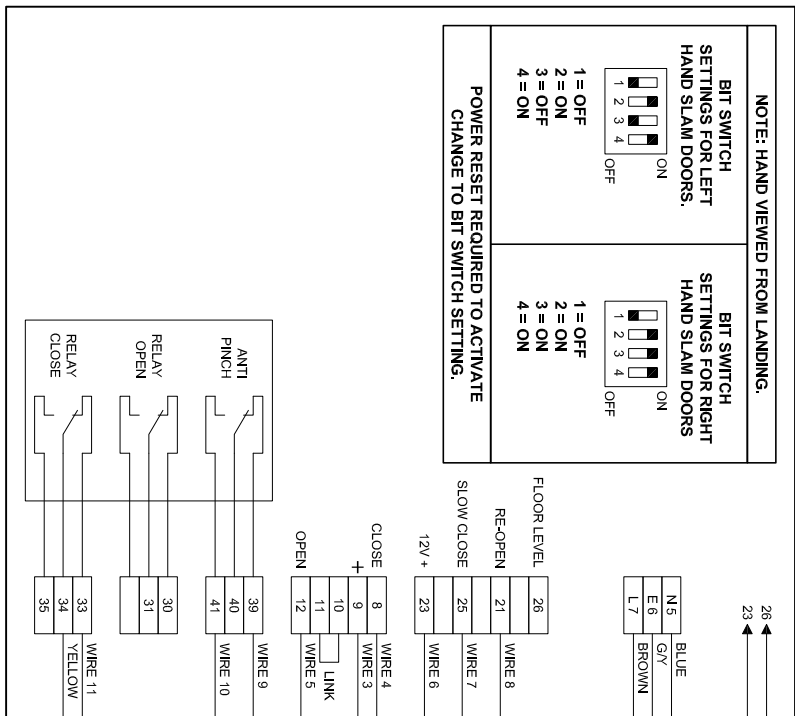
REQUIRED ON BOTTOM FLOOR EXIT SIDE ONLY



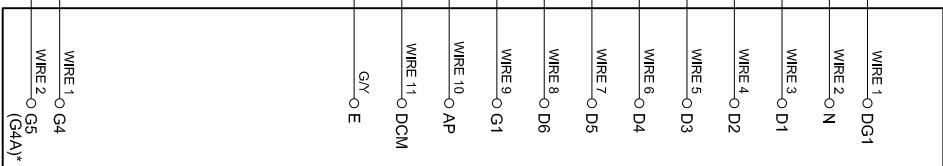
FERMATOR
EMERGENCY SUPPLY UNIT



ORIENTATION OF L AND N TERMINALS ON THE FERMATOR MODULES CAN DIFFER TO THAT SHOWN ABOVE. THEREFORE, ALWAYS ENSURE THAT L AND N CONNECTIONS ARE CORRECT TO THE MODULES SUPPLIED.



CABIN ROOF
TERMINALS



NAME: J.NICHOLLS

DATE: 02/06/14

CHECKED: M.HOOD

DATE: 02/06/14

MIDLIFT PICCOLO
MAIN ENTRANCE DOOR CONTROLLER
CONNECTION DETAILS



HEAD OFFICE:
Anton Mill
Andover Hampshire
SP10 2NX England

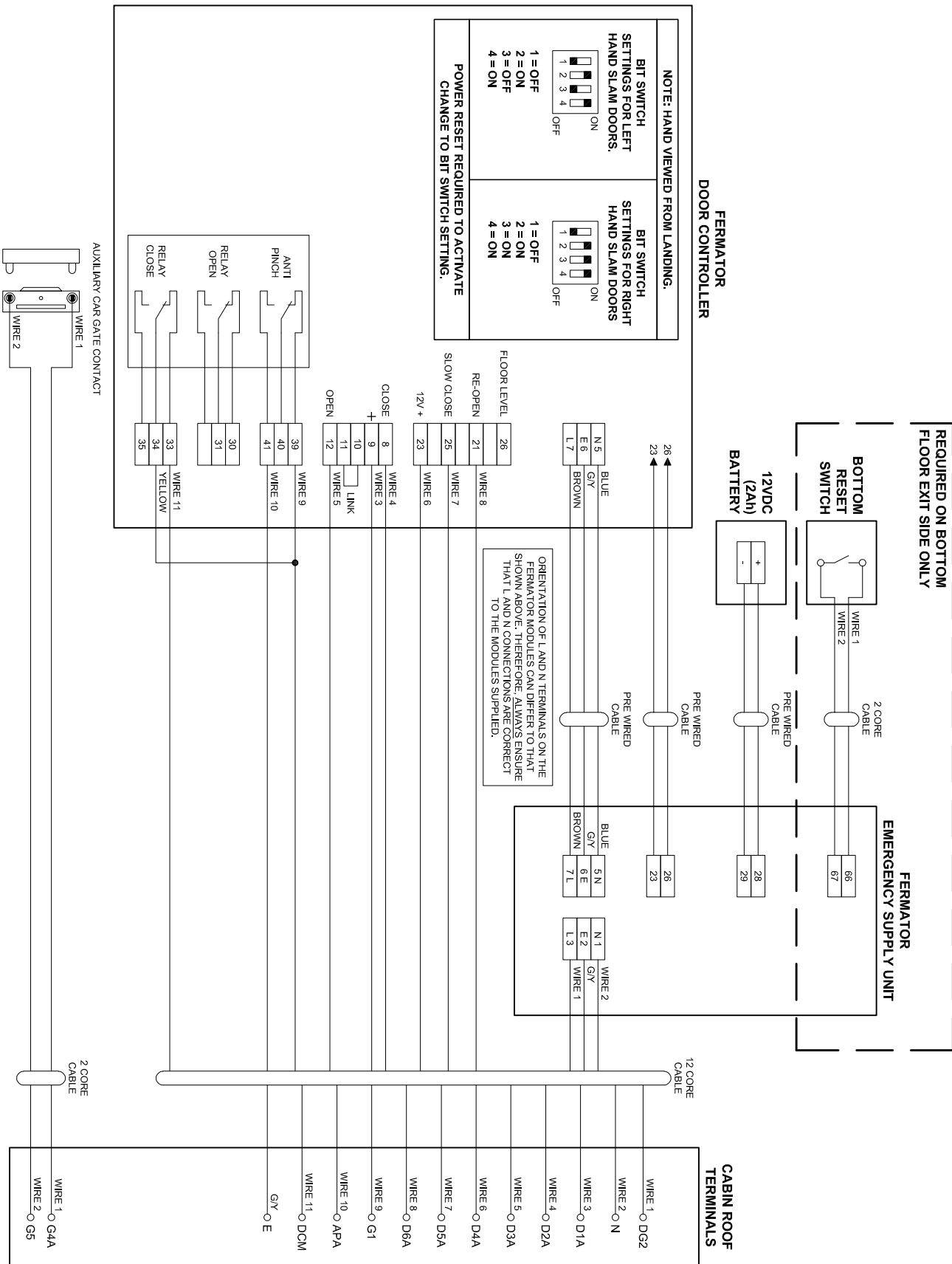
Tel: 01264 339090 Fax: 337942

DRAWING NO: 9448-080

REV: E

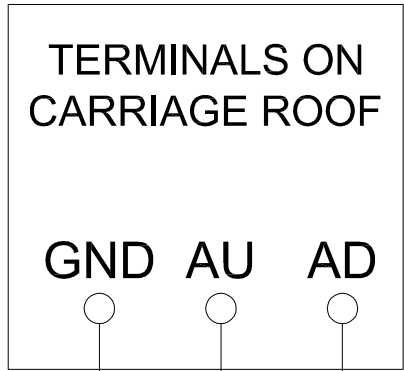
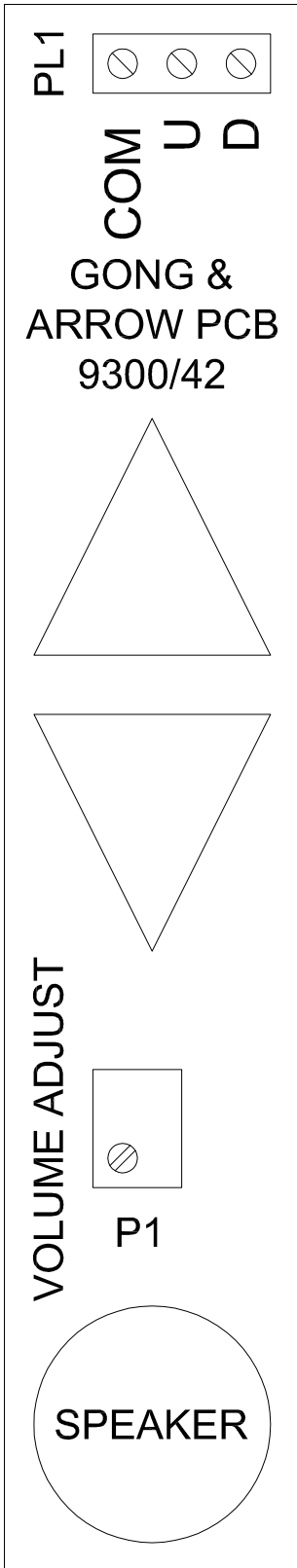
REV E: FERMATOR EMERGENCY SUPPLY CONNECTION DETAILS ALTERED. MH 13/02/2019 A6261.
REV D: RESET SWITCH DETAILS AND MAINS WIRING DETAILS AMENDED. JN 26/03/2018 A6144.
REV C: BATTERY BACKUP CONNECTION DETAILS ADDED. MH 09/03/2016 A5735.
REV B: BIT SWITCH DESCRIPTION UPDATED. 07/09/2015 JN. A5688
REV A: BIT SWITCH SETTINGS UPDATED FOR L/H & R/H DOORS. 09/06/2015 JN. A5667

* = THROUGH CAR

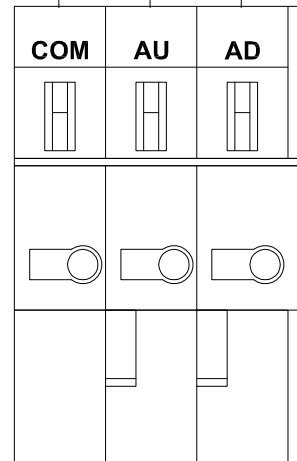
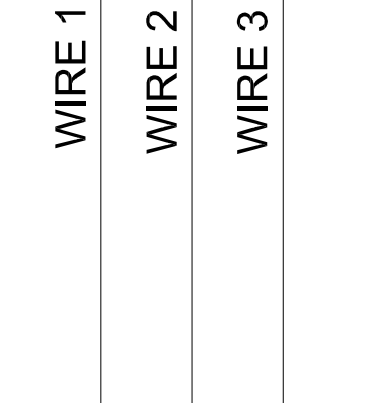
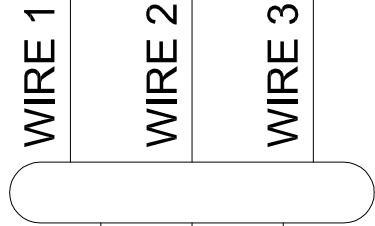


NAME: J.NICHOLLS	DATE: 02/06/14
CHECKED: M.HOOD	DATE: 02/06/14
MIDLIFT PICCOLO AUXILIARY ENTRANCE DOOR CONTROLLER CONNECTION DETAILS	
Stannah	
HEAD OFFICE: Anton Mill Andover Hampshire SP10 2NX England Tel: 01264 339090 Fax: 337942	
DRAWING NO: 9448-081	REV: E

REV E: FERMATOR EMERGENCY SUPPLY CONNECTION DETAILS ALTERED. MH 13/02/2019 A6261.
 REV D: RESET SWITCH DETAILS AND MAINS WIRING DETAILS AMENDED. JN 26/03/2018 A6144.
 REV C: BATTERY BACKUP CONNECTION DETAILS ADDED. MH 09/03/2016 A5735.
 REV B: BIT SWITCH DESCRIPTION UPDATED. 07/09/2015 JN. A5688
 REV A: BIT SWITCH SETTINGS UPDATED FOR L/H & R/H DOORS. 09/06/2015 JN. A5667



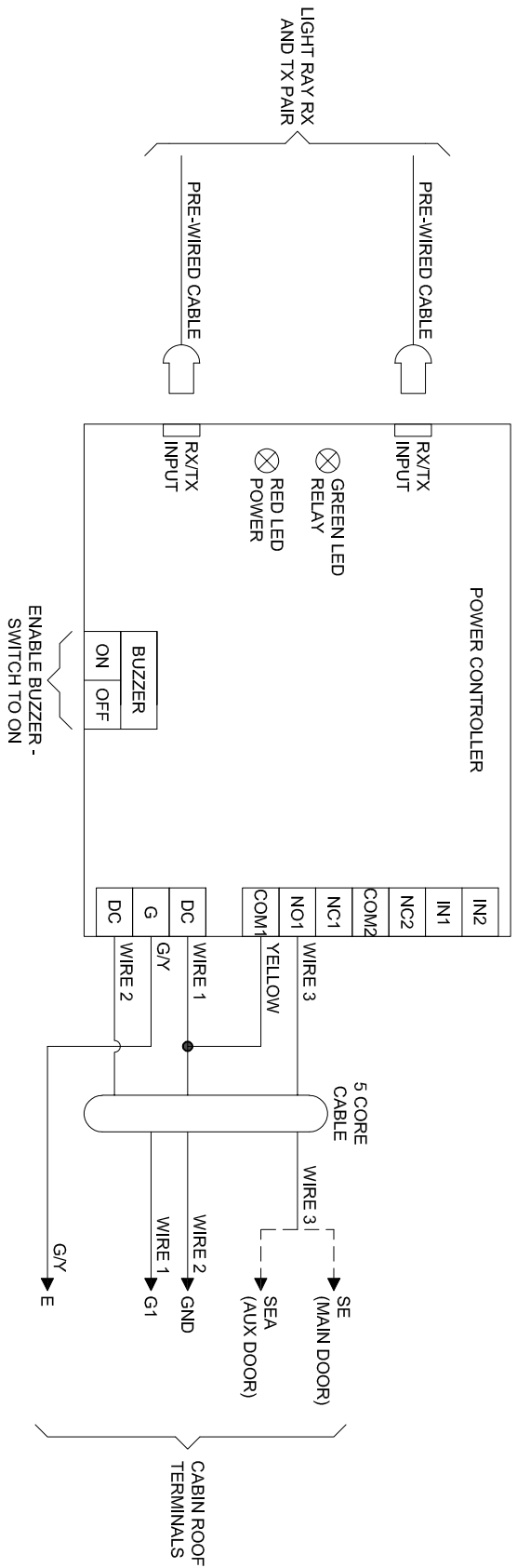
5 CORE CABLE
(1-5)



IMPORTANT NOTE:
CHECK THAT THE
ORIENTATION OF THE
PLUG & WIRE
NUMBERS ARE
CORRECT BEFORE
PLUGGING INTO PCB

**PLUG INTO PL1 ON
GONG & ARROW PCB**

NAME: J.NICHOLLS	DATE: 02/06/14
CHECKED: M.HOOD	DATE: 02/06/14
MIDLIFT PICCOLO DIRECTION OF DEPARTURE ARROWS AND GONGS PCB	
Stannah	
HEAD OFFICE: Anton Mill Andover Hampshire SP10 2NX England	
Tel: 01264 339090 Fax: 337942	
DRAWING NO: 9448-082	REV:

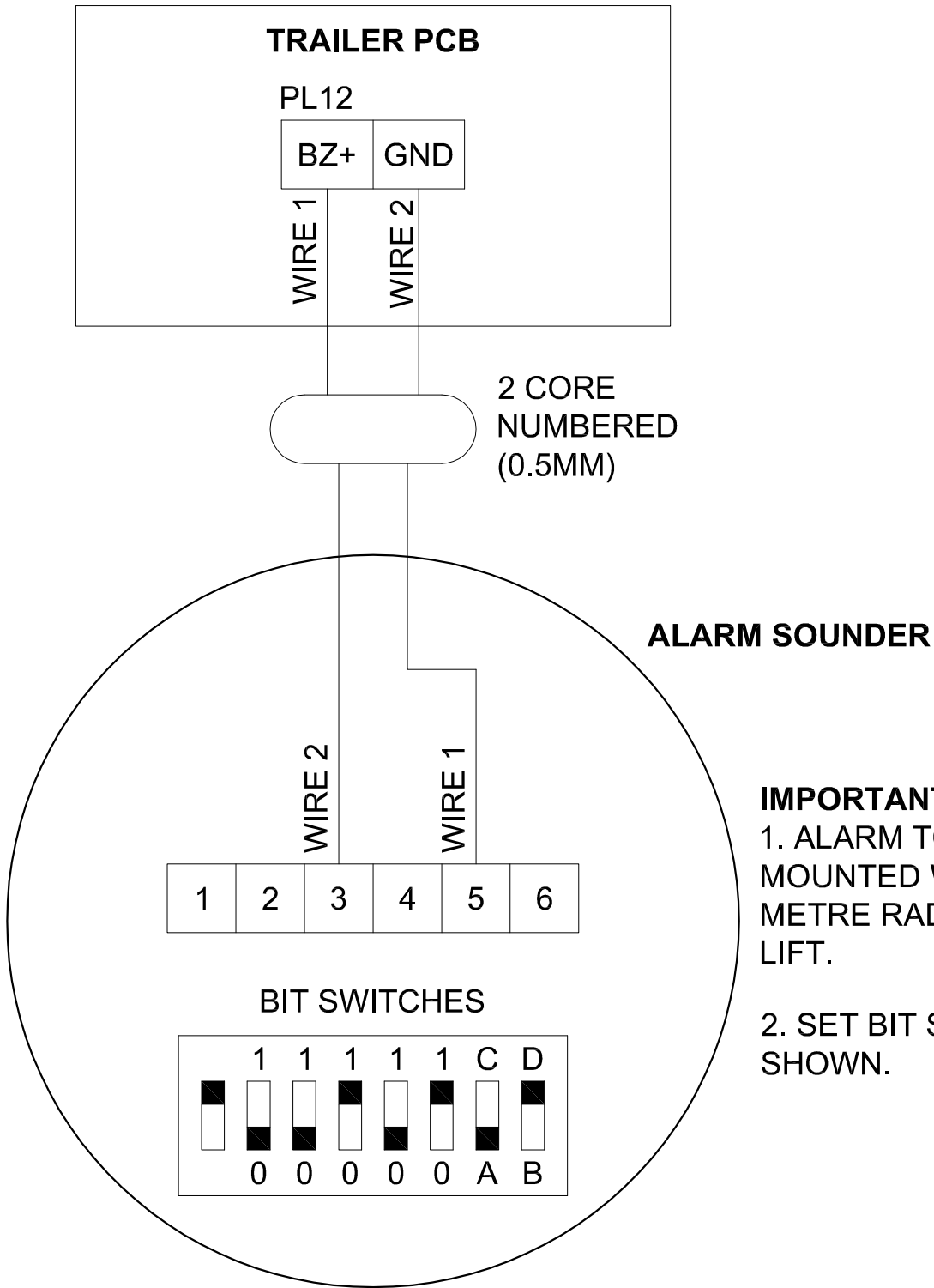


POWER CONTROLLER LED STATUS	
LED STATUS	MEANING
○ GREEN LED	NO POWER
○ RED LED	
○ GREEN LED	OBSTRUCTION
● RED LED	
● GREEN LED	
● RED LED	NORMAL OPERATION
⊗ GREEN LED	ERROR (I.E. RX / TX NOT CONNECTED / FAULTY)
○ RED LED	

LIGHT RAY LED STATUS	
LED STATUS	MEANING
○ YELLOW LED	LIGHT RAY NOT CONNECTED
○ RED LED	
● YELLOW LED	OBSTRUCTION
● RED LED	
● YELLOW LED	
○ RED LED	NORMAL OPERATION
● YELLOW LED	
⊗ RED LED	ANTI-VANDAL FUNCTION

NAME: J. NICHOLLS	DATE: 02/06/14
CHECKED: M. HOOD	DATE: 02/06/14
MIDIFIT PICCOLO FULL HEIGHT INFRA RED SAFETY EDGE	
Stannah	
HEAD OFFICE: Anton Mill Andover Hampshire SP10 2NX England Tel: 01264 339090 Fax: 337942	
DRAWING NO: 9448-083	REV: C

REV C: INTRODUCTION OF NEW VEGA LIGHT RAYS. MH. 29/05/19. A6248.
 REV B: NOTE ADDED TO TIE-BACK AND INSULATE ORANGE AND PURPLE CABLES. JN. 16/01/17. A6022.
 REV A: G1 AND DRM WIRING DETAILS CHANGED ON THE RX LIGHT RAY. JN. 04/08/15. A5687.



IMPORTANT NOTES:

1. ALARM TO BE MOUNTED WITHIN A 5 METRE RADIUS OF THE LIFT.
2. SET BIT SWITCHES AS SHOWN.

NAME:	J.NICHOLLS	DATE:	17/02/10
CHECKED:	M.HOOD	DATE:	17/02/10

MIDLIFT XL+
ALARM SOUNDER
CONNECTION DETAILS

Stannah

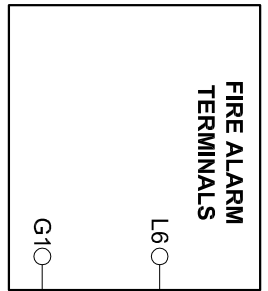
HEAD OFFICE:
Anton Mill
Andover Hampshire
SP10 2NX England

Tel: 01264 339090 Fax: 337942

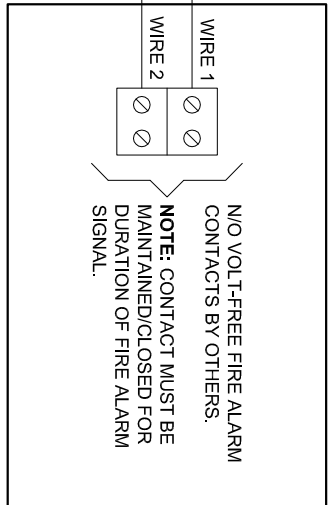
DRAWING NO:	9448-032	REV:	A
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FIRE ALARM

TRAILER CONNECTION
BOX



2 CORE 0.5mm CABLE
(NUMBERED 1 & 2)
5 METRES



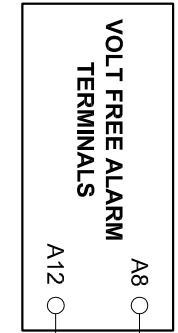
EXTERNAL ENCLOSURE (513080)

N/O VOLT-FREE FIRE ALARM
CONTACTS BY OTHERS.
NOTE: CONTACT MUST BE
MAINTAINED/CLOSED FOR
DURATION OF FIRE ALARM
SIGNAL.

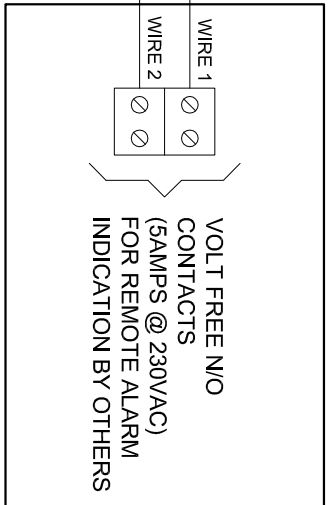
IMPORTANT NOTE:
ENCLOSURE TO BE MOUNTED
OUTSIDE OF THE LIFT WITHIN A
5 METRE RADIUS AT THE UPPER
LANDING

VOLT FREE ALARM

TRAILER CONNECTION BOX



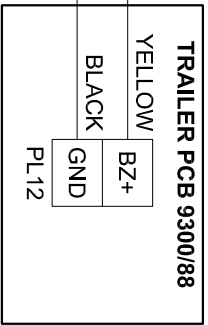
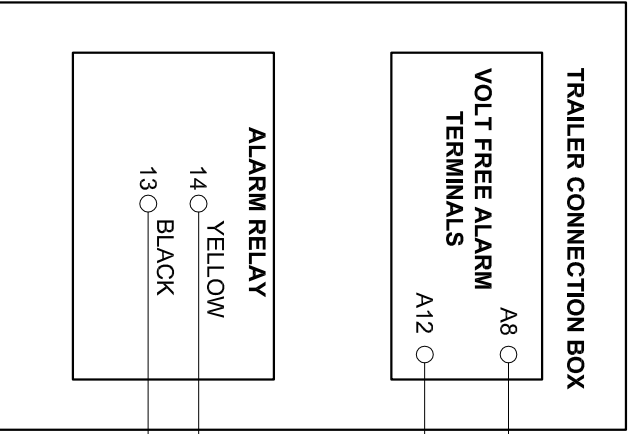
2 CORE 0.5mm CABLE
(NUMBERED 1 & 2)
5 METRES



EXTERNAL ENCLOSURE (513080)

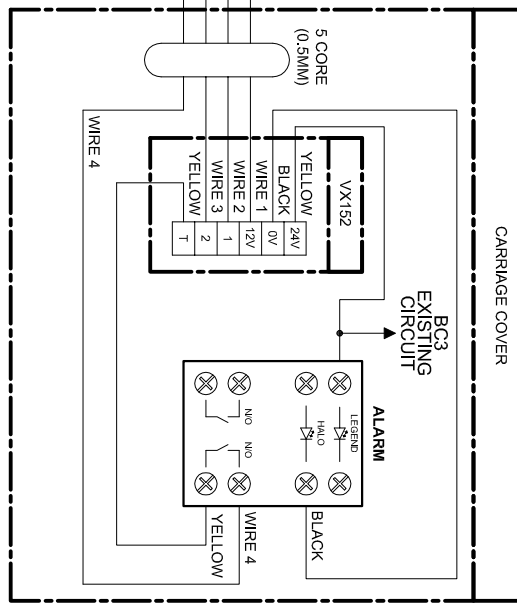
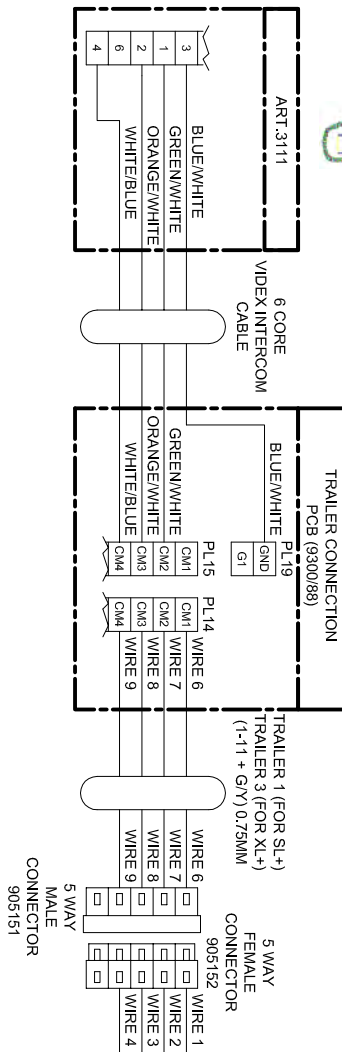
VOLT FREE N/O
CONTACTS
(5AMPS @ 230VAC)
FOR REMOTE ALARM
INDICATION BY OTHERS

IMPORTANT NOTE:
ENCLOSURE TO BE MOUNTED
OUTSIDE OF THE LIFT WITHIN A
5 METRE RADIUS AT THE UPPER
LANDING

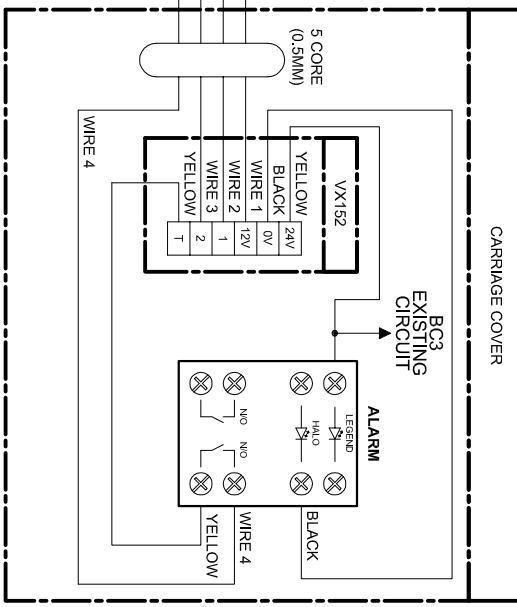
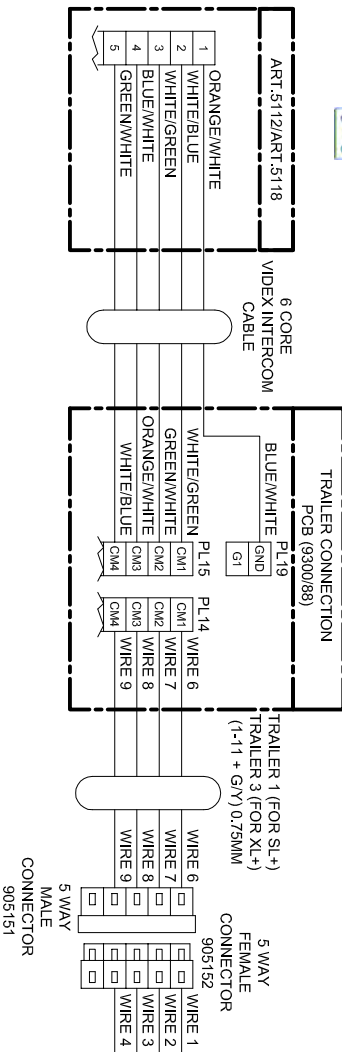


NAME: J.KENT	DATE: 30/07/12
CHECKED: M.HOOD	DATE: 30/07/12
MIDLIFT VOLT FREE OPTION ENCLOSURE CONNECTION DETAILS	
Stannah	HEAD OFFICE: Anton Mill Andover Hampshire SP10 2NX England
	Tel: 01264 339090 Fax: 337942
DRAWING NO: 9448-054	REV: A

STANDARD HANDSET

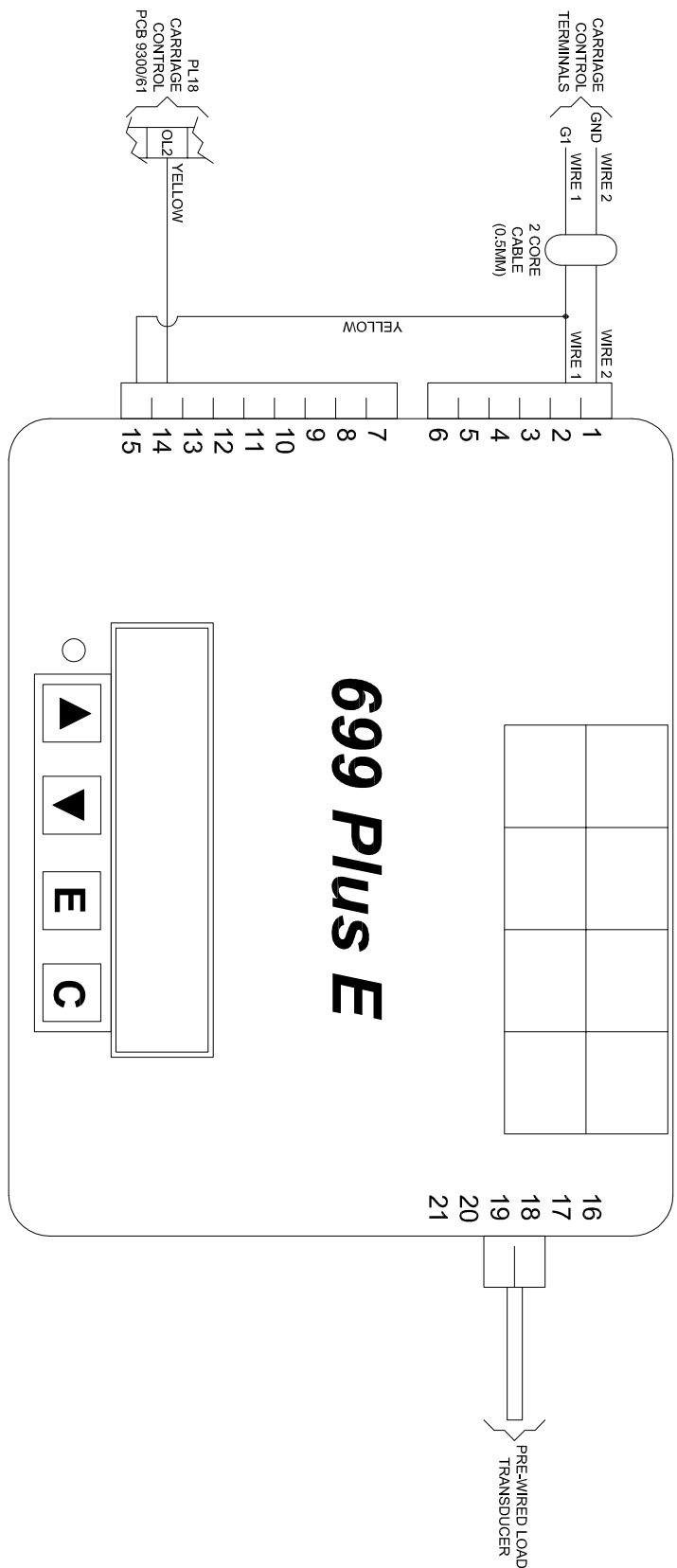



SIMPLEX OPTION



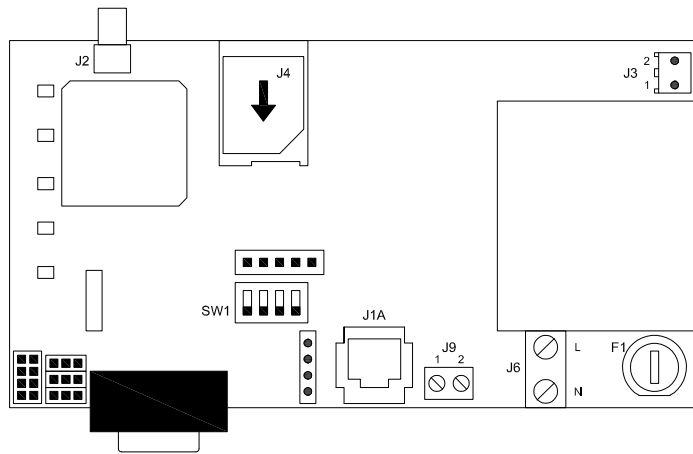
NAME: J.KENT	DATE: 09/04/13
CHECKED: M.HOOD	DATE: 09/04/13
MIDLIFT CABIN VIDEX INTERCOM CONNECTION DETAILS	
HEAD OFFICE: Anton Mill Andover Hampshire SP10 2NX England Tel: 01264 339090 Fax: 337942	
DRAWING NO: 9448-070	REV: B

REV C: TRAILER NUMBER UPDATED TO SHOW SL+ & ART.5112/ART.5118 WIRING UPDATED.
 27/05/2014 JN A5573.
 REV A: TERMINAL BLOCK REMOVED. JK. 02/07/13. A5511.



NAME: M.HOOD	DATE: 17/02/10
CHECKED: J.NICHOLLS	DATE: 17/02/10
OVERLOAD DEVICE CONNECTION DETAILS	
	
HEAD OFFICE: Anton Mill Andover Hampshire SP10 2NX England Tel: 01264 339090 Fax: 337942	
DRAWING NO: 9448-029	REV: D

REV D: WIRE NUMBERS OF 2 CORE CABLE AMENDED TO SUIT UPDATED OVERLOAD. JN 04/12/17
 REV C: WIRE NUMBERS OF 2 CORE CABLE ADDED. MH 12/04/12 A5277
 REV B: DRAWING CHANGED TO REFLECT NEW LOAD WEIGHING DEVICE. 03/02/2012 JK. A5195
 REV A: UPDATED FOR NEW LOGO AND TEXT FONT. 29/07/2010 JN.



MEMCO GSM - Quick setup guide

For full details refer to the 'DPC Installation Guide' which can be accessed on the Avire website (www.avire-global.com)

IMPORTANT NOTE: MAINS SUPPLY SHOULD BE DISCONNECTED BEFORE BEGINNING THIS PROCEDURE.

1. SETTING UP THE DEVICE

- A. Insert SIM card into plug J4, pressing it in until it clicks.
- B. Ensure that the antenna is securely connected to plug J2.
- C. Connect the pre-wired battery lead to plug J3.

2. CHECKING THE NETWORK COVERAGE

- A. Ensure all previous steps have been completed.
- B. Turn the first dip switch SW1 to On.
- C. The five LEDs on the front will show the network signal level.
- D. Once a suitable location has been found, switch SW1 to OFF and fix in position.

3. WIRING THE GSM

- A. Connect the mains power supply to plug J6.
- B. Phone line connection between plug J9 (GSM unit) and CM1/CM2 (lift trailer PCB) as per below:
 - J9 terminal 1 to CM2.
 - J9 terminal 2 to CM1.

4. CONFIGURING THE GSM (via local telephone mode)

- A. Connect an analogue telephone handset into J1A.
- B. Pick up the handset and after hearing the dial tone, enter the access command *****1234****.
- C. Change parameter value P020 to value 00, by entering the following combination on the handset keypad ***020#00#**.
- D. Hang up the phone to complete configuration.

NAME: J.NICHOLLS	DATE: 02/08/18
CHECKED: M.HOOD	DATE: 02/08/18

MIDLIFT
MEMCO GSM (DCP UNIT)
WIRING / SETUP GUIDE

Stannah

HEAD OFFICE:
Anton Mill
Andover Hampshire
SP10 2NX England

Tel: 01264 339090 Fax: 337942

DRAWING NO: 9452044

REV: A

PREPARATION

ENSURE THE FOLLOWING BEFORE BEGINNING PROCEDURE -

- THAT THE STEPS DETAILED IN THE INSTALLATION GUIDE UP TO AND INCLUDING "MOUNTING THE PUMP UNIT" HAVE BEEN COMPLETED.
- IT IS RECOMMENDED THAT INSTALLATION MODE IS ENABLED WHENEVER COP IS REMOVED FOR INSPECTION PURPOSES. ENSURE RELEVANT STEPS ARE FOLLOWED.
- LIFT POWER SUPPLY IS TURNED OFF.

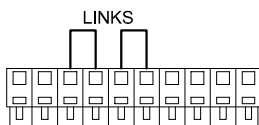
STEP 1

CONNECT INSTALLATION PENDANT CONTROL AND DDU BOX.

INSTALLATION OF MIDILIFT PICCOLO **SHOULD NOT BE ATTEMPTED** WITHOUT THE USE OF THESE TOOLS.

STEP 2

LINK OUT ALL UNINSTALLED CAR AND LANDING DOOR CONTACTS. CONNECT SHORTING PLUGS INTO LANDING SOCKETS 1-6 ON THE TRAILER PCB (9300/88).



THESE LINKS ARE REQUIRED TO MAINTAIN A CIRCUIT BETWEEN POINTS 'G4' TO 'G5' AND 'G5' TO 'G6' WITHIN THE SAFETY CHAIN.

ENSURE THE BOTTOM RESET SWITCH IS FITTED BETWEEN POINTS 'G1' TO 'BR' TO ENABLE THE LIFT TO RUN DOWN.

STEP 3

INSTALLATION SHORTING LINK TO BE FITTED BETWEEN TERMINALS G7A AND G8 ON THE CARRIAGE CONTROL TERMINAL RAIL.

THIS LINK IS REQUIRED TO CREATE A TEMPORARY SHORT FOR THE UNINSTALLED ROOF SAFETY SWITCHES.

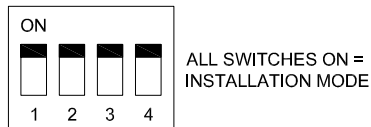
STEP 4

LINK OUT UNINSTALLED LIFT ISOLATION KEYSWITCH.

THIS LINK IS REQUIRED TO CREATE A TEMPORARY SHORT BETWEEN 'KSW' AND 'G1' ON THE TRAILER PCB (9300/88).

STEP 5

ENABLE 'INSTALLATION' MODE VIA BIT SWITCHES ON CONTROL PCB (9300/61).



INSTALLATION MODE

STEP 6

TURN ON LIFT POWER SUPPLY TO ENABLE INSTALLATION MODE.

THE CABIN DDU WILL DISPLAY 'I' TO CONFIRM MODE SELECTION.

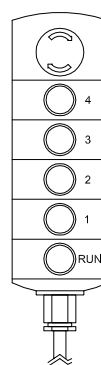
STEP 7

RUN THE LIFT VIA THE CABIN PENDANT CONTROLS (SEE 'INSTALLATION RUN' SECTION BELOW).

SHORTING LINKS MUST BE REMOVED AS RELEVANT SAFETY COMPONENTS ARE INSTALLED AND BECOME OPERATIONAL.

FOR INSPECTION PURPOSES THE COP PUSH BUTTONS CAN BE USED TO RUN LIFT. SEE 'COP CONTROL' SECTION BELOW.

INSTALLATION RUN CONTROLS



PENDANT BUTTON 4 - DOOR OPEN COMMAND
A MOMENTARY PRESS WILL OPEN DOORS FOR APPROXIMATELY 10 SECONDS.

PENDANT BUTTON 3 - (PICCOLO 2:1 ONLY) SLOW SPEED SELECTION
A MOMENTARY PRESS ACTIVATES SLOW SPEED RUNNING.

PENDANT BUTTON 2 - LIFT RUN UP COMMAND REQUIRES CONSTANT PRESSURE.

PENDANT BUTTON 1 - LIFT RUN DOWN COMMAND REQUIRES CONSTANT PRESSURE.

COP CONTROL

COP BUTTON 1
LIFT RUN UP COMMAND (CONSTANT PRESSURE).

COP BUTTON 0
LIFT RUN DOWN COMMAND (CONSTANT PRESSURE).

CARRIAGE FRAME STOP SWITCH
EMERGENCY STOP SWITCH (BEHIND COP)

ENSURE THAT THE RELEVANT APPENDIX IS REFERRED TO UPON COMPLETION OF INSTALLATION PHASE...

PICCOLO DIRECT
CALIBRATE MOTOR = **APPENDIX I**
LEARN FLOOR LEVELS = **APPENDIX C**

PICCOLO 2:1
LEARN FLOOR LEVELS = **APPENDIX C**

IMPORTANT NOTE: MOTOR CALIBRATION IS ONLY REQUIRED ON **PICCOLO DIRECT** AND SHOULD BE COMPLETED PRIOR TO LEARNING FLOOR LEVELS.

IF INSTALLATION MODE WAS USED FOR INSPECTION PURPOSES THE LIFT CAN BE RETURNED TO NORMAL MODE BY:

- TURN OFF LIFT
- RETURN BIT SWITCHES TO ORIGINAL POSITION (I.E. ALL OFF)
- TURN ON LIFT TO ALLOW RESET TO LOWEST FLOOR

SEE APPENDIX C FOR BIT SWITCH FUNCTION IN NORMAL MODE.

NAME: M. HOOD

DATE: 14/11/14

CHECKED: J. NICHOLLS

DATE: 14/11/14

APPENDIX A MIDILIFT PICCOLO INSTALLATION GUIDE

Stannah

HEAD OFFICE:
Anton Mill
Andover Hampshire
SP10 2NX England

Tel: 01264 339090 Fax: 337942

DRAWING NO: APPENDIX A

REV: C

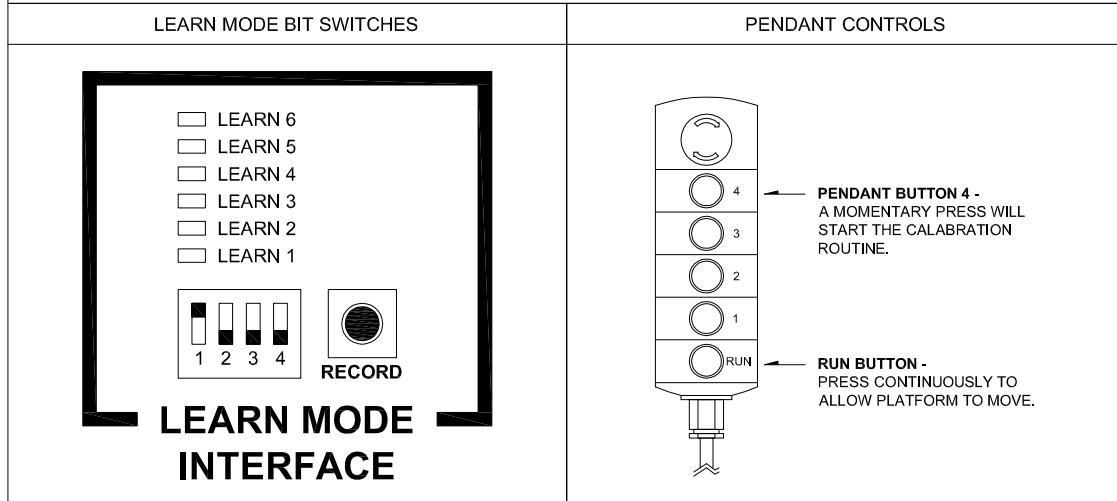
MOTOR CALIBRATION PROCEDURE
IT IS ACCEPTED THAT PERSONS CARRYING OUT THIS INSTALLATION HAVE
ALREADY RECEIVED FORMAL TRAINING.
THIS PROCEDURE IS FOR GUIDANCE ONLY.

IMPORTANT NOTE: MOTOR CALIBRATION IS NOT REQUIRED ON PICCOLO 2:1 MODEL

ENSURE ALL SAFETY DEVICES ARE INSTALLED AND ARE FUNCTIONING CORRECTLY. IT IS RECOMMENDED THAT BOTH THE PENDANT CONTROLLER AND DDU/SPEAKER BOX ARE USED DURING THIS PROCEDURE.

BEFORE STARTING ENSURE THE VALVE BLOCK IS CORRECTLY SETUP AND THE LIFT IS RUNNING AT RATED SPEED.

IMPORTANT NOTE: MOTOR CALIBRATION MUST BE COMPLETED BEFORE FLOOR LEVELS ARE PROGRAMMED (LEARN MODE).



**FOR BEST RESULTS THE FOLLOWING PROCEDURE SHOULD BE CARRIED OUT WITH
APPROXIMATELY 80KG ON THE CARRIAGE.**

STEP 1

POSITION LIFT AT BOTTOM FLOOR LEVEL AND ENSURE RESET FLAG IS INSTALLED.

STEP 2

TURN ON SWITCH 1 TO SELECT CALIBRATION MODE AND RESET LIFT CONTROLLER. EITHER BY POWER CYCLE
OR USE OF 'RESET' BUTTON ON CARRIAGE.

STEP 3

WAIT FOR THE LEARN LEDS TO FLASH AND A CHARACTER 'C' TO BE DISPLAYED ON THE DDU'S.
PICCOLO NOTE: IF FITTED WITH DIRECTION OF DEPARTURE ARROWS/GONGS BE AWARE THAT THE ARROWS
WILL FLASH AND THE GONG WILL SOUND AT THIS POINT.

STEP 4

PRESS AND HOLD RUN BUTTON; MOMENTARILY PRESS PENDANT BUTTON 4 TO INITIATE CALIBRATION.
(NOTE: RUN BUTTON WILL NEED TO BE MAINTAINED)

THE LIFT WILL AUTOMATICALLY RUN UP APPROXIMATELY 1 METER, STOP AND RUN DOWN APPROXIMATELY
HALF A METER.

STEP 5

THE LEARN LEDS WILL FLASH CONTINUOUSLY, THIS CONFIRMS THE PUMP UNIT HAS BEEN SUCCESSFULLY
CALIBRATED.

STEP 6

RELEASE RUN BUTTON AND TURN OFF **SWITCH 1**.
THE LIFT CONTROLLER WILL NEED TO BE RESET TO RETURN TO NORMAL OPERATION (EITHER BY POWER
CYCLE OR USE OF 'RESET' BUTTON ON CARRIAGE).

STEP 7

REFER TO LEARN MODE PROCEDURE IF FLOOR LEVELS REQUIRE PROGRAMMING.

APPENDIX I MIDLIFT MOTOR CALIBRATION PROCEDURE

IMPORTANT NOTE
BEFORE BEGINNING LEARN MODE PROCEDURE -

- CHECK THAT ALL SAFETY DEVICES ARE INSTALLED AND FUNCTIONING CORRECTLY.
- ENSURE MOTOR CALIBRATION HAS BEEN COMPLETED - APPENDIX I (PICCOLO DIRECT ONLY).
- PENDANT CONTROL AND DDU SPEAKER BOX TOOLS ARE INSTALLED TO ENABLE SAFE OPERATION OF LIFTS WITH PANELS REMOVED.
- TO ENABLE SERVICE ENGINEERS TO RE-PROGRAMME FLOOR LEVELS, COP PUSH BUTTONS CAN BE USED IN PLACE OF A PENDANT CONTROLLER. SEE 'COP CONTROL' SECTION.

IMPORTANT NOTE:
IT IS ACCEPTED THAT PERSONS CARRYING OUT THIS INSTALLATION HAVE ALREADY RECEIVED FORMAL TRAINING. THIS PROCEDURE IS FOR GUIDANCE ONLY.

STEP 1

TURN ON SWITCH 4 TO ACTIVATE LEARN MODE (LIFT WILL NOW RESET TO GROUND FLOOR).

STEP 2

LEARN 1 LED WILL APPEAR.
IF A MINUS FLOOR, FIRE SHUTDOWN OR HOMING FLOOR IS REQUIRED PRESS THE CORRESPONDING CAR CALL BUTTON.
SET ENTRANCE ARRANGEMENT FOR FLOOR 1
NO BIT SWITCHES = MAIN ENTRANCE
SET BIT SWITCH 1 = AUX ENTRANCE
SET BIT SWITCH 2 = THROUGH CAR

ONCE THE CORRECT BIT SWITCH IS SET, PRESS THE 'RECORD' BUTTON UNTIL LEARN 2 IS ILLUMINATED.

STEP 3

DRIVE LIFT TO NEXT FLOOR.

STEP 4

ONCE POSITIONED AT FLOOR LEVEL, RECORD SPECIFIC FLOOR ENTRANCE ARRANGEMENT

NO BIT SWITCHES = MAIN ENTRANCES
SET BIT SWITCH 1 = AUX ENTRANCES
SET BIT SWITCH 2 = THROUGH CAR

STORE THE FLOOR LEVEL BY PRESSING THE 'RECORD' BUTTON.
FLOOR LEVEL IS RECORDED ONCE THE NEXT 'LEARN' LED IS ILLUMINATED.

STEP 5

REPEAT STEPS 3 AND 4 TO PROGRAMME REMAINING FLOORS.

STEP 6

ONCE YOU HAVE PROGRAMMED THE FINAL FLOOR LEVEL, TURN OFF SWITCH 4 TO EXIT LEARN MODE AND RETURN TO NORMAL OPERATION.

BIT SWITCH FUNCTION IN NORMAL MODE

SWITCH 1
NO OPERATION

SWITCH 2 - JOURNEY TIME SELECTION

	DIRECT	2:1
ON	30 SECONDS	70 SECONDS
OFF	60 SECONDS	120 SECONDS

SWITCH 3 - ADJUSTABLE DOOR DWELL TIME

	ALL
ON	10 SECONDS
OFF	15 SECONDS

SWITCH 4 - LEARN MODE ACTIVATION
WILL PUT LIFT INTO LEARN MODE.

LEARN MODE INTERFACE

- LEARN 6
- LEARN 5
- LEARN 4
- LEARN 3
- LEARN 2
- LEARN 1

SET A MINUS FLOOR
PRESS PENDANT 1
LA WILL APPEAR ON THE DDU

SET BIT SWITCH 1 = MINUS 1 FLOOR
SET BIT SWITCH 2 = MINUS 2 FLOOR

ONCE SETTINGS HAVE BEEN MADE, PRESS THE RECORD BUTTON TO RETURN.

SET A FIRE FLOOR
PRESS PENDANT 2
LB WILL APPEAR ON THE DDU

SET BIT SWITCH 1 = 0 FLOOR
SET BIT SWITCH 2 = 1 FLOOR
SET BIT SWITCH 3 = 2 FLOOR
SET BIT SWITCH 1 & 2 = 3 FLOOR
SET BIT SWITCH 1 & 3 = 4 FLOOR

ONCE SETTINGS HAVE BEEN MADE, PRESS THE RECORD BUTTON TO RETURN.

DISABLE HOMING
(DEFAULT = ACTIVE TO FLOOR 1)
PRESS PENDANT 3
LC WILL APPEAR ON THE DDU

BIT SWITCH 1 OFF = HOMING ON (15 MINS)
BIT SWITCH 1 ON = HOMING DISABLED

ONCE SETTINGS HAVE BEEN MADE, PRESS THE RECORD BUTTON TO RETURN.

PENDANT CONTROLS

- PENDANT BUTTON 4 - DOOR OPEN COMMAND**
A MOMENTARY PRESS OPEN DOORS FOR APPROXIMATELY 10 SECONDS.
- PENDANT BUTTON 3 - (PICCOLO 2:1 ONLY) SLOW SPEED SELECTION**
A MOMENTARY PRESS ACTIVATES SLOW SPEED RUNNING.
- PENDANT BUTTON 2 - LIFT RUN UP COMMAND**
REQUIRES CONSTANT PRESSURE.
- PENDANT BUTTON 1 - LIFT RUN DOWN COMMAND**
REQUIRES CONSTANT PRESSURE.

COP CONTROLS (FOR SERVICE ENGINEERS)

- COP BUTTON 1**
LIFT RUN UP COMMAND (CONSTANT PRESSURE).
- COP BUTTON 0**
LIFT RUN DOWN COMMAND (CONSTANT PRESSURE).
- CARRIAGE FRAME STOP SWITCH**
EMERGENCY STOP SWITCH (BEHIND COP)

APPENDIX C
MIDILIFT PICCOLO
LEARN MODE
PROCEDURE

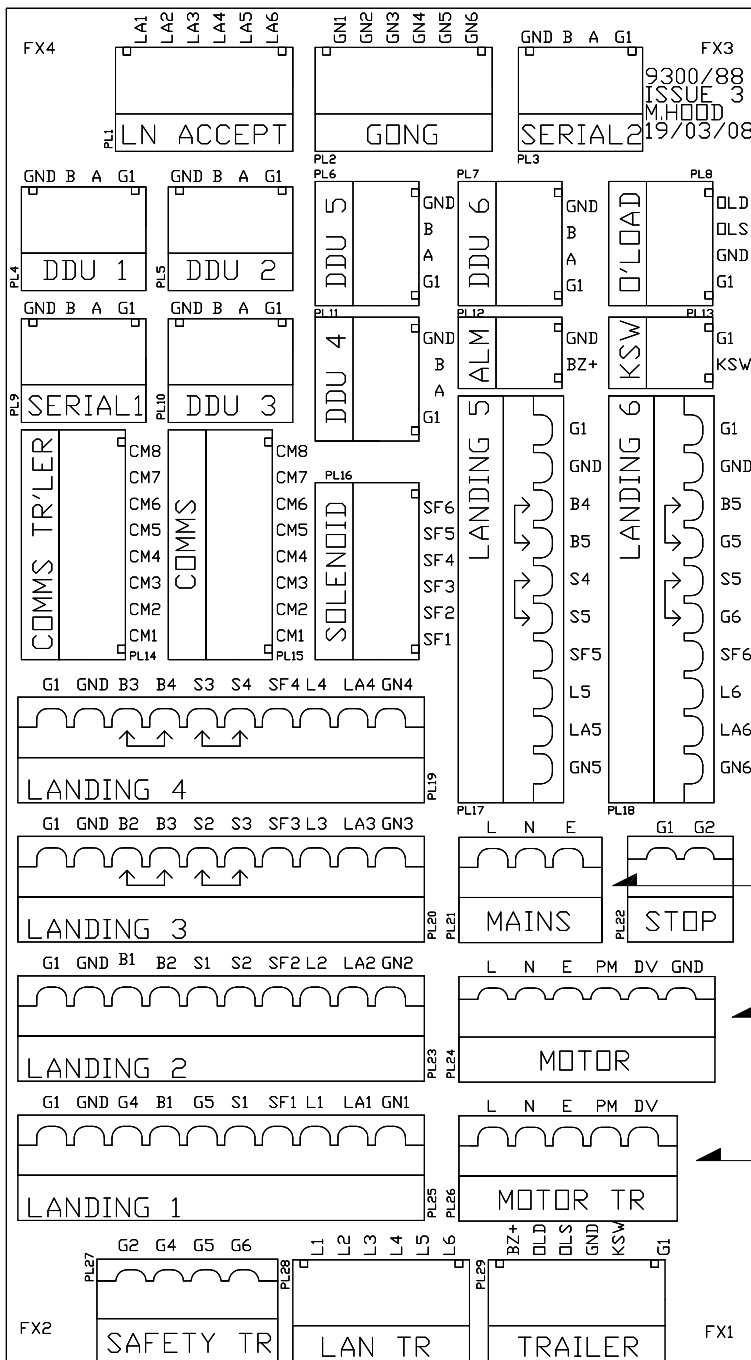
APPENDIX B – FAULT CODE LIST

Certain fault conditions will cause the controller to latch the lift out of service. When this happens, the relevant fault code will be displayed on all lift digital display units (DDU's) and the lift will be latched out of service.

The lift supply will need to be cycled in order to clear the latch fault and return the lift to normal service (NOTE: After supply has been re-instated the lift will 'RESET' to the bottom floor).

FAULT CODES:

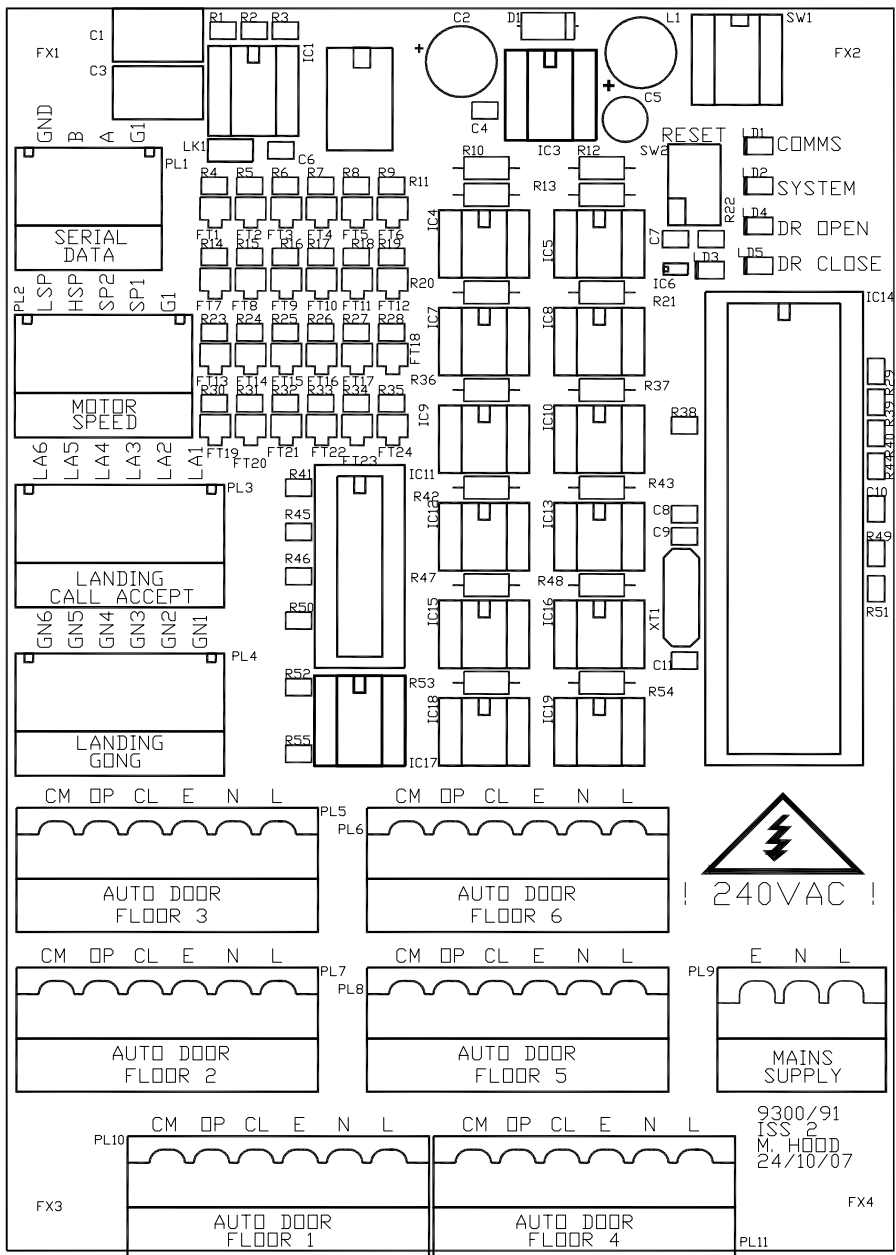
DDU DISPLAY	DESCRIPTION
A	<p>ENCODER MOVEMENT FAULT No encoder movement was detected during last run attempt.</p> <ul style="list-style-type: none"> • If lift moved (i.e. is away from floor level) then check encoder assembly for fault. • If lift did not move (i.e. is at floor level) then check run circuit for fault.
B	<p>JOURNEY TIME FAULT Maximum journey time exceeded. Check inverter/drive system for errors. Confirm journey time selection using SWITCH 2.</p> <ul style="list-style-type: none"> • ON = 30 sec (SL+ / PICCOLO DIRECT) 70 sec (PICCOLO 2:1) • OFF = 60 sec (SL+ / PICCOLO DIRECT) 120 sec (PICCOLO 2:1)
C	<p>LIGHT RAY FAULT Lift controller failed to detect a light ray input during the last 10 consecutive door open commands.</p> <ul style="list-style-type: none"> • Check for misuse of lift. • Possible faulty light ray – monitor 'DRM' input with light ray activated.
D / J	<p>RUN CONTACT FAULT Run contact monitor input received whilst lift is stationary. Check the following –</p> <ul style="list-style-type: none"> • Wiring of 'MC' contactor. • Faulty 'MC' contactor (i.e. permanently energised).
E	<p>ANTI-SURF FAULT (landing door beaks) Landing door has been manually released whilst lift in normal service. Fault can also occur if door beak contacts have gone out of alignment. Check the following –</p> <ul style="list-style-type: none"> • Misuse of lift. • Landing door beak alignment.
F	<p>ANTI-CREEP RELAY FAULT Controller has detected an input to terminal 'ACM' (Anti-Creep Monitor) when <u>not</u> in anti-creep mode. Check the following –</p> <ul style="list-style-type: none"> • Wiring to Anti-creep Relay. • Faulty Anti-Creep Relay (i.e. permanently energised).
G	<p>ANTI-SURF FAULT (car door beaks) Car door has been manually released whilst lift in normal service. Fault can also occur if door beak contacts have gone out of alignment. Check the following –</p> <ul style="list-style-type: none"> • Misuse of lift. • Car door beak alignment.
I / K	<p>PRE RUN FAULT Fault K - is detected if lift is ready to run (UOK or DOK are ON) but safety chain has been lost at either G4, G5 or G6 <u>without</u> anticreep output set. Fault I - is detected if lift is running in one direction but has 'ready to run' input in opposite direction (i.e. up/down interlock has failed).</p>
R	<p>RESET MODE Lift attempting to reset to bottom floor. If no lift movement or directional arrow shown please check for break in the safety chain.</p>



9300/88
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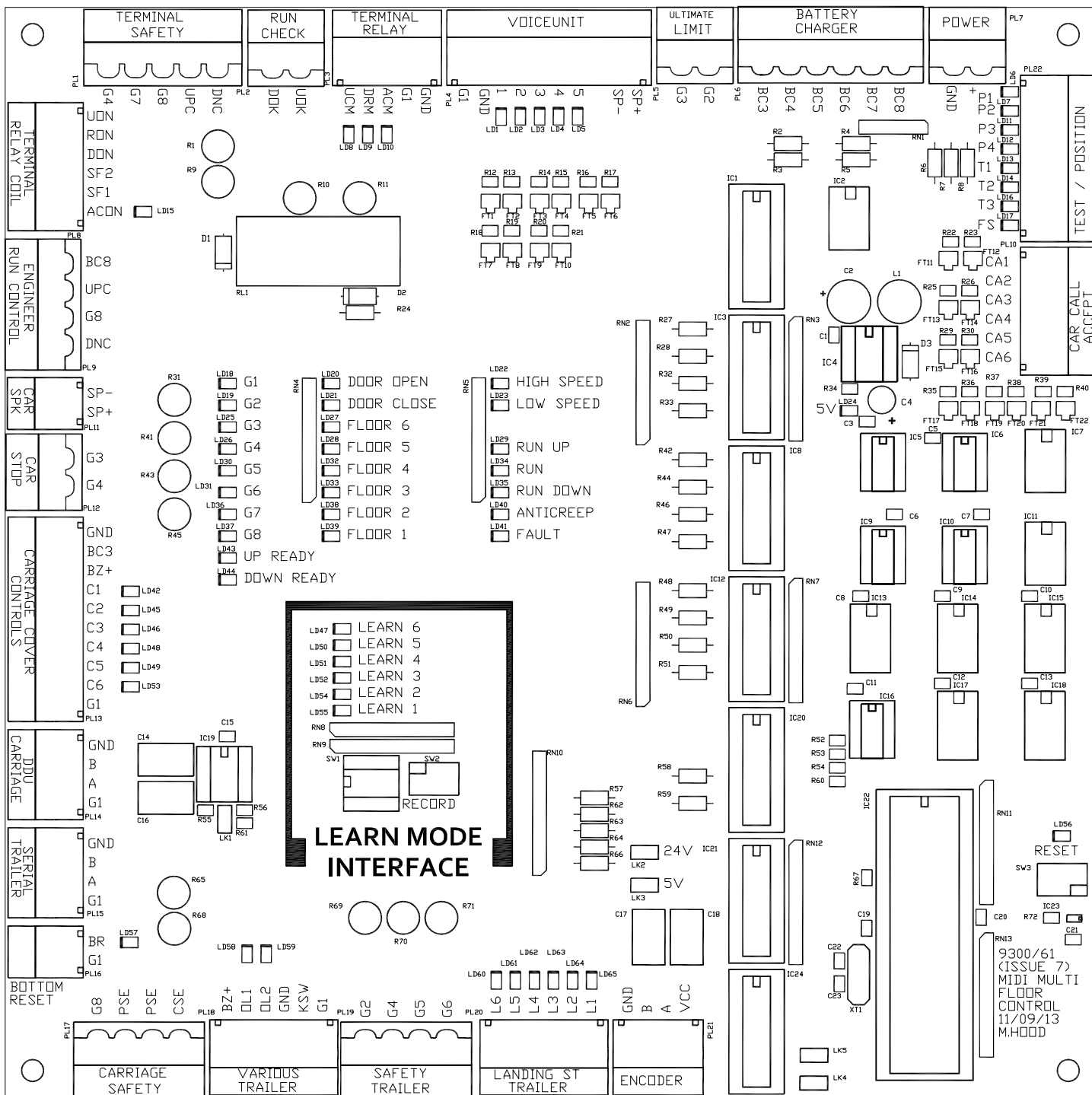
! WARNING !
MAINS VOLTAGE
TERMINALS

**APPENDIX D -
TRAILER PCB
LAYOUT**

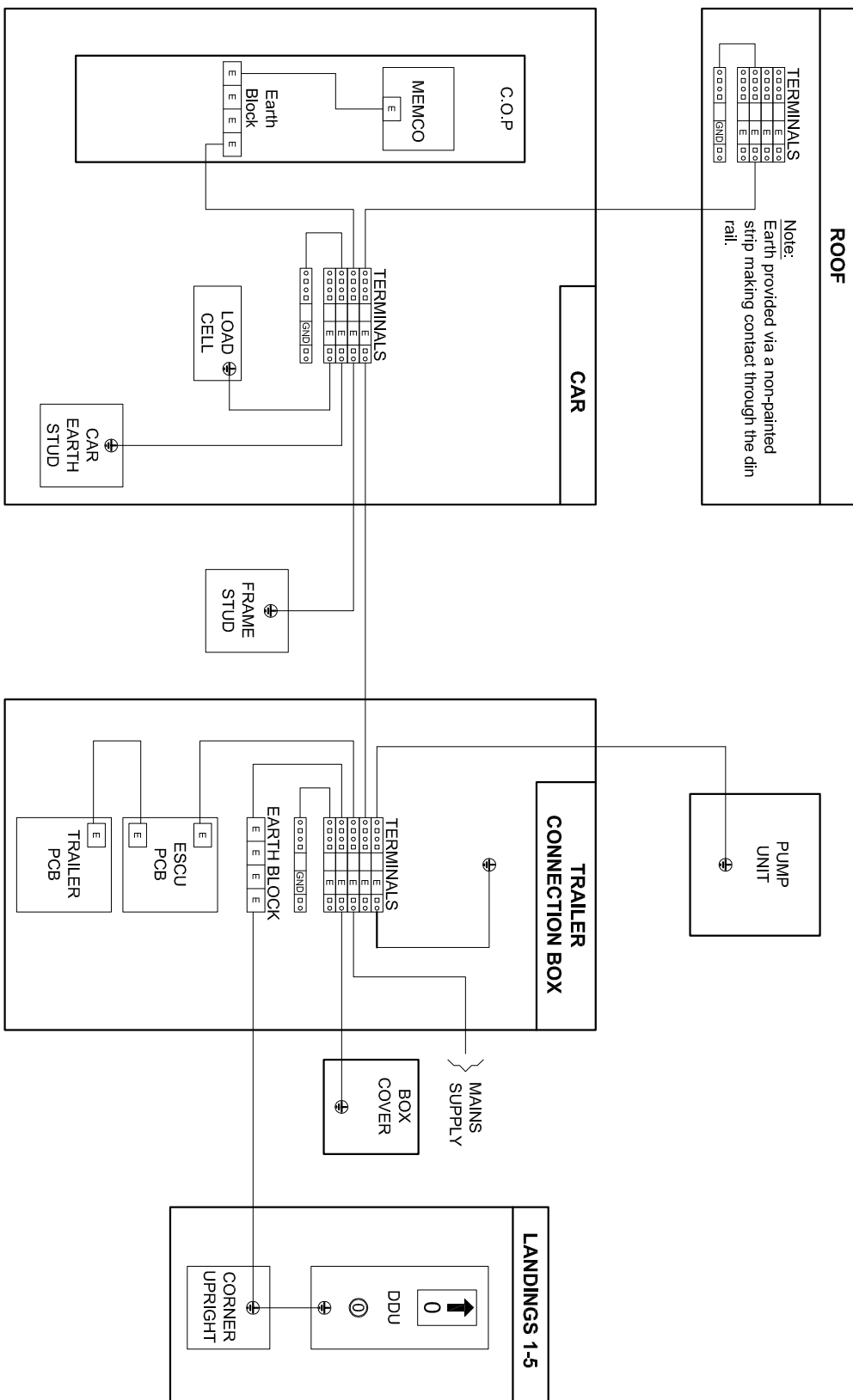


! WARNING !
230VAC MAINS
VOLTAGE
TERMINALS

**APPENDIX E -
ESCU PCB
TERMINATIONS**



**APPENDIX F -
CONTROL PCB
LAYOUT**



**APPENDIX G
MIDLIFT PICCOLO
EARTH BONDING
GUIDE**

Introduction:

Prior to setup, the lift must be run at least 5 times with full rated load and ensure the lift is not tight in the guides. It is also advisable to jump up and down a few times in the lift. Finally, ensure the lift is not resetting on the ground.

CALIBRATION ROUTINE (START HERE).

Important note: If ER.01 appears when the load weighing device is first turned ON, ignore and continue with the below calibration.

1 Enter Setup Mode:

- 1.1 Press and hold the RESET button, then press and hold the ▼ and C buttons and release the reset button, keep ▼ and C pressed until MANU is displayed briefly before showing LEV.

2 Set the Controller with the weight of the empty car:

- 2.1 Press ▼ to move to the TARE function (the TARE value is the car's own weight – set to 0)
- 2.2 Empty lift car
- 2.3 Press E and display will show 0.
- 2.4 Press E again to start 60 second countdown (T-60 to T-0) to allow time for the installer to exit the car (Ensure there is no extra load in the car during this time)
- 2.5 Measurement is complete when MEM□ is briefly displayed and then TARE is shown again

3 Calibration of Load Sensor Controller:

- 3.1 Press ▼ until the HI function is shown (the HI value is used to calibrate the load sensor with a known load)
- 3.2 Press E to select mode
- 3.3 Press ▲ or ▼ buttons to move value to 400kg
- 3.4 Add 400kg of test weight to the cabin. Load must be distributed such that 100kg is placed in each of the 4 corners / quadrants of the cabin.
- 3.5 Press E to start 60 second countdown (T-60 to T-0) to allow time for the installer to exit the car (Ensure there is no extra load in the car during this time).

IMPORTANT NOTE: For Piccolo models only, allow the Fermator cabin and landing doors to close for duration of this 60 second countdown. This will allow the Load Sensor Controller to evaluate maximum load condition.

- 3.6 Measurement is complete when MEM□ is briefly displayed and then HI is shown again.
- 3.7 Remove test weights.

Continued on page 2 of 2...

APPENDIX H
1 OF 2
LOAD WEIGHING
DEVICE SETUP

4 Set Maximum Rated Load:

- 4.1 Press ▼ until the **FSCA** function is shown (the **FSCA** value is the maximum rated load)
- 4.2 Press **E** to select mode
- 4.3 Press ▲ or ▼ buttons to move value to 400kg
- 4.4 Press **E** to confirm, **FSCA** is shown again.

5 Set Overload Alarm:

- 5.1 Press ▼ to activate the **LEV1** mode (the **LEV1** value is a percentage of the maximum rated load that will activate the overload alarm)
- 5.2 Press **E** to select mode
- 5.3 Press ▲ or ▼ buttons to move value to 120%
- 5.4 Press **E** to confirm input. Display will return to **LEV1**.
- 5.5 **LEV2** and **LEV3** are not used.

6 Exit Setup Mode

- 6.1 Press **C** to end calibration and return to normal running. Display will show **SAVE** briefly.

7 Check Readout

- 7.1 Step into car and check the load value has increased by the installers approximate weight.

- 8 Exit the lift car and check display shows 0. If not, the unit can be zeroed by leaning into the empty lift car and pressing '**C**' briefly.

Note: Pressing the **C** button will save the setup at any time. To return to the setup menu follow step 1.1 above and use the ▲ or ▼ buttons to move to the required setting.

Fault Codes

Code	Meaning
ER.01	Negative Load: ER01 indication is displayed alternatively to the measured load (the minus is displayed only up to three numbers, i.e. -999). Check connections and recalibrate.
ER.22	Conversion slope not correct: too high signal from 942 Strain Link (fix 942 to a more rigid part of the lift frame or substitute it). Verify that HI value is entered with the right resolution (use weight at least 80% FSCA).
ER.23	HI value is too low (in engineering units). HI-Tare must be > 10
ER.24	Calibration Load is too low. Increase load.
ER.26	TARE and HI values identical, in engineering units
ER.28	Overrange / Underrange: ER.28 is displayed alternatively to measured load. Verify that sensor mechanical installation is OK and corresponding to Factory indications. In case perform again Sensor Installation. Calibrate again the 699Plus after the modifications.
ER.30	C pushbutton is detected pressed for more than 3 seconds, when controller is in programming.

APPENDIX H
2 OF 2
LOAD WEIGHING
DEVICE SETUP