



THE STANNAH STAIRISER SX

ELECTRICAL WIRING MANUAL

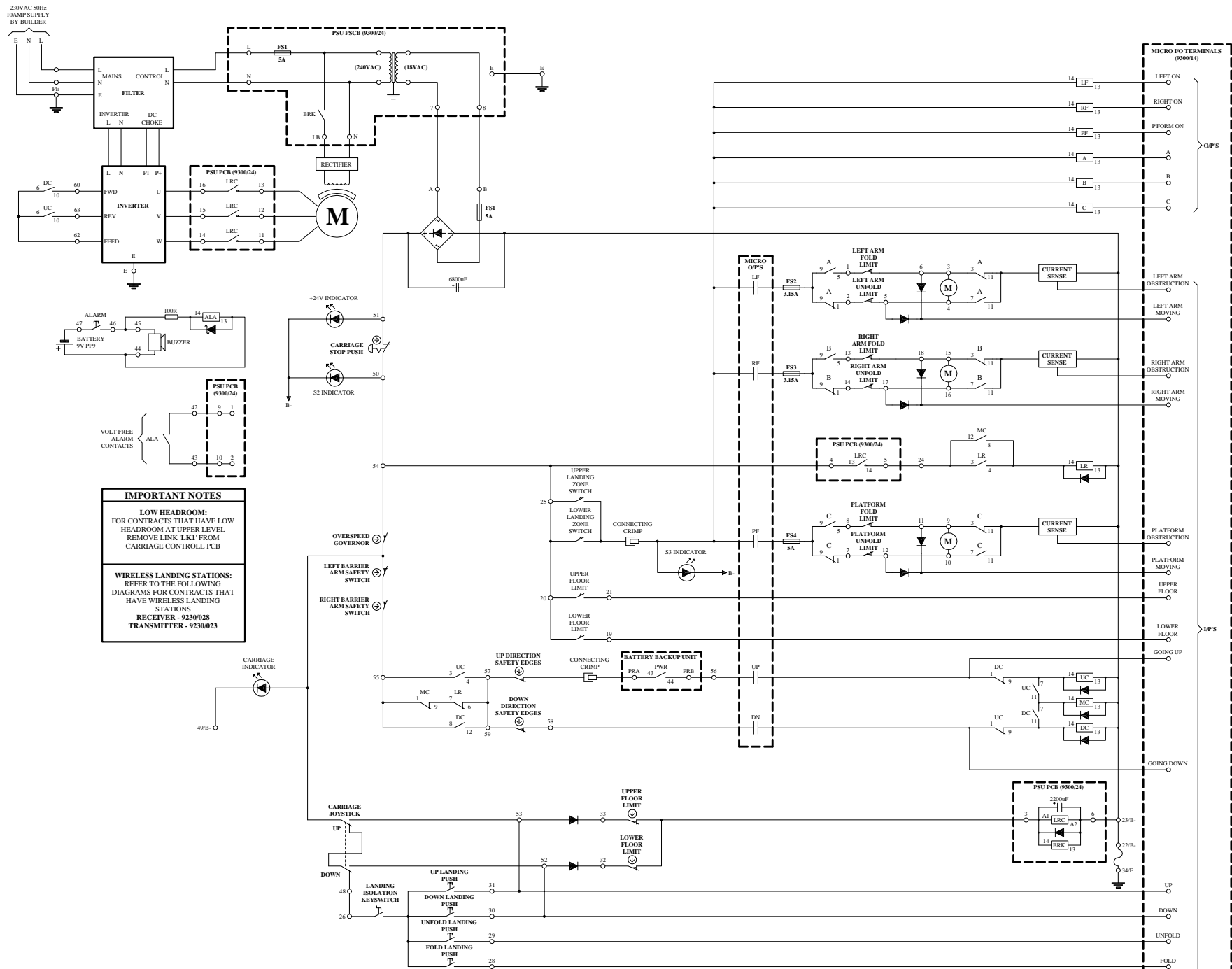
ISSUE:

8



INDEX

UPDATED DRAWINGS (*)	DRAWING NUMBER	REV	DRAWING DESCRIPTION
	9230/001	E	Stairiser SX main key wiring diagram
	9230/002	B	Stairiser SX transformer, inverter and filter connection details
	9230/003	E	Stairiser SX carriage cover and OSG connection details
	9230/004	B	Stairiser SX barrier arm and platform limits/actuator connection details
	9230/005	B	Stairiser SX platform safety edge connection details
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	9230/039		Stairiser SX hand-held emergency lowering device connection details
	9230/037		Stairiser SX wireless attendant control connection details
	9230/103	E	External Stairiser SX carriage cover and OSG connection details
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	9230/038		Stairiser SX fault finding guide



IMPORTANT NOTES

LOW HEADROOM:
FOR CONTRACTS THAT HAVE LOW HEADROOM AT UPPER LEVEL REMOVE LINK 'LK1' FROM CARRIAGE CONTROL PCB

WIRELESS LANDING STATIONS:
REFER TO THE FOLLOWING DIAGRAMS FOR CONTRACTS THAT HAVE WIRELESS LANDING STATIONS
RECEIVER - 9230/028
TRANSMITTER - 9230/023

NAME: **M. HOOD** DATE: **11/03/03**
 CHECKED: **R. BAUGH** DATE: **11/03/03**

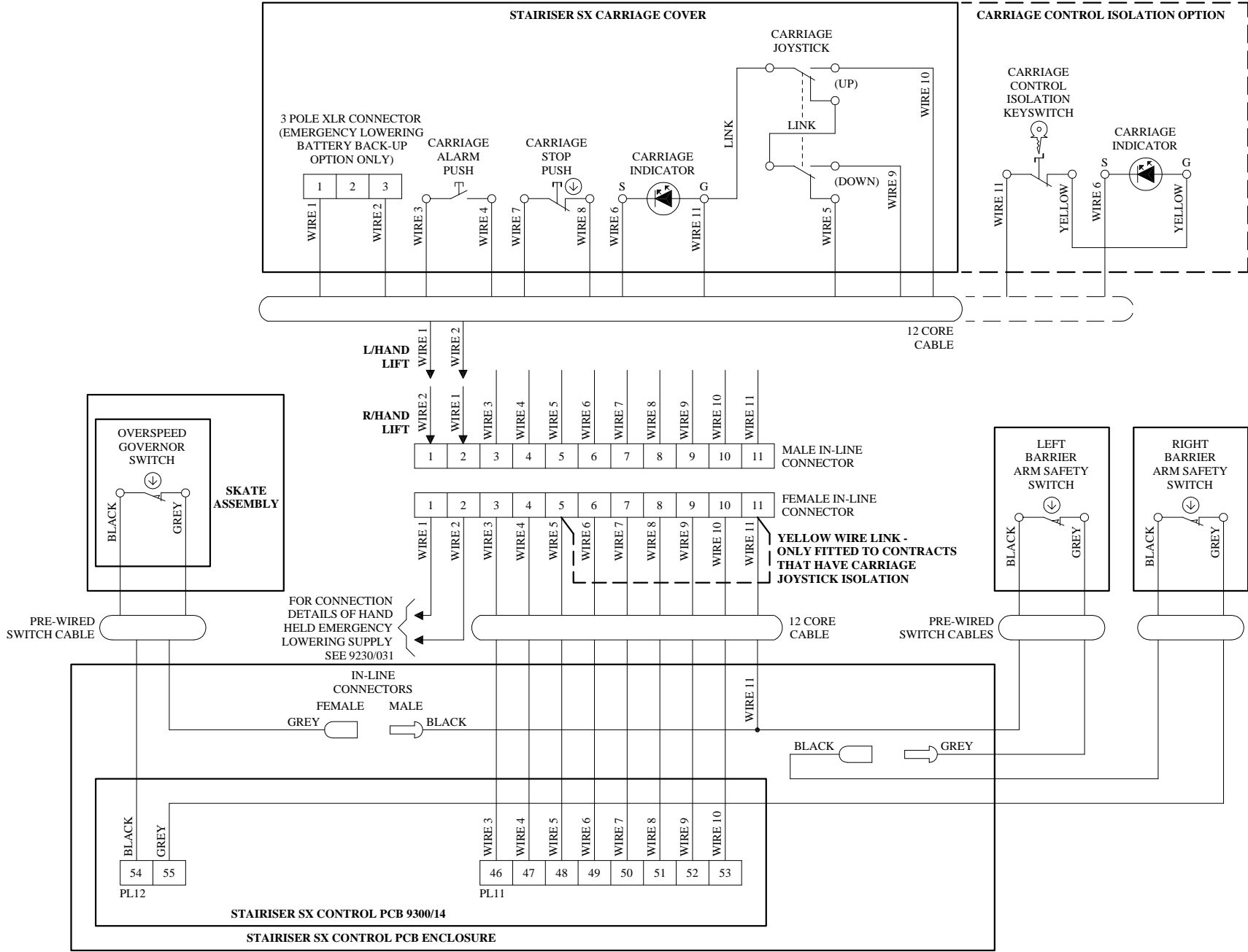
STAIRISER SX
MAIN KEY WIRING DIAGRAM

HEAD OFFICE:
 Anton Mill
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Stannah

DRAWING NO: **9230/001** REV: **E**

REV E: PLATFORM LIMIT TERMINATION NUMBERS ALTERED 21/11/05 MH
 REV D: SECOND LANDING ZONE SWITCH SHOWN 30/03/05 MH
 REV C: INVERTER DIRECTION SETTINGS SHOWN 29/06/04 MH
 REV B: FLOOR LIMIT CONNECTION DETAILS ALTERED 15/07/03 MH
 REV A: BATTERY BACK UP CONNECTION DETAILS ADDED 03/06/03 MH



NAME: **M. HOOD** DATE: **14/03/02**
 CHECKED: **R. BAUGH** DATE: **14/03/03**

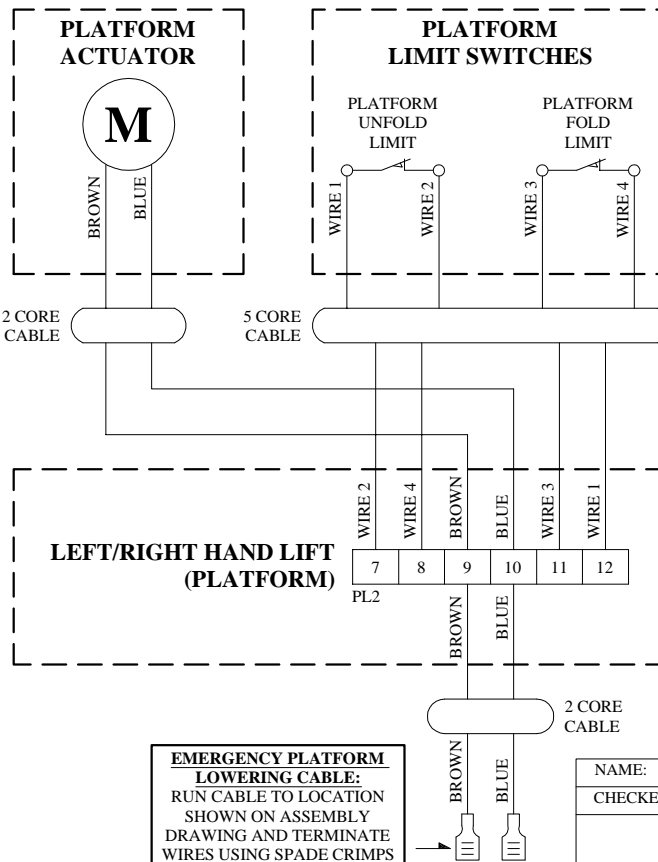
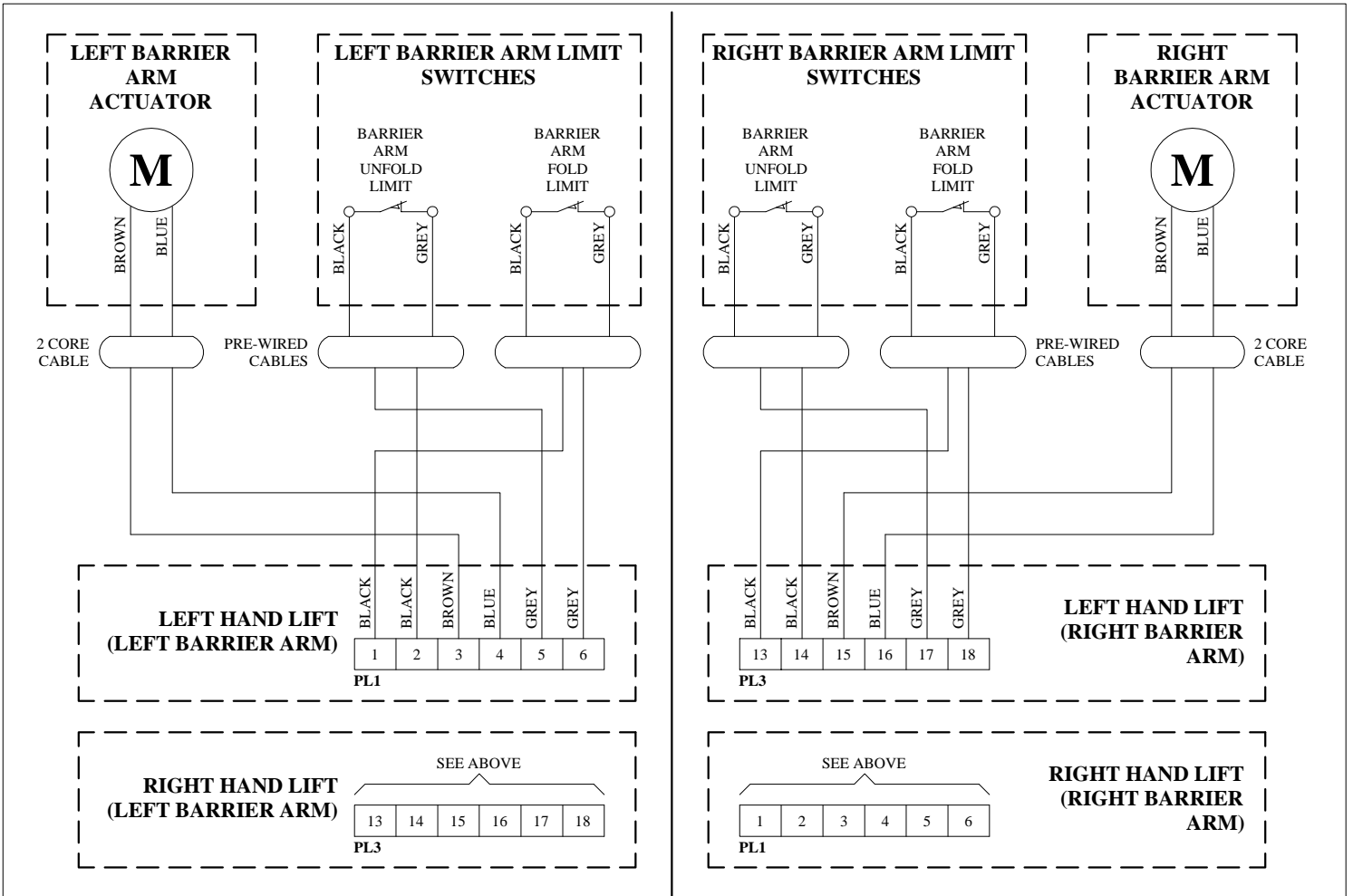
STAIRISER SX CARRIAGE COVER AND OSG CONNECTION DETAILS

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DRAWING NO: **9230/003** REV: **D**

REV E: WIRE LINK ADDED FOR JOYSTICK ISOLATION 27/04/06 MH
 REV D: CONNECTION DETAILS OF CARRIAGE CONTROL ISOLATION SHOWN 31/01/06 MH
 REV C: BARRIER ARM SAFETY SWITCHES CHANGED TO PRE-WIRED SWITCHES 22/11/05 MH
 REV B: LIMIT SWITCH CONNECTION DETAILS AND DRAWING TITLE ALTERED 29/03/05 MH
 REV A: MALE AND FEMALE IN-LINE CONNECTORS ALTERED 29/04/03 MH



EMERGENCY PLATFORM LOWERING CABLE:
 RUN CABLE TO LOCATION SHOWN ON ASSEMBLY DRAWING AND TERMINATE WIRES USING SPADE CRIMPS

NAME: **M. HOOD** DATE: **17/03/03**
 CHECKED: **R. BAUGH** DATE: **17/03/03**

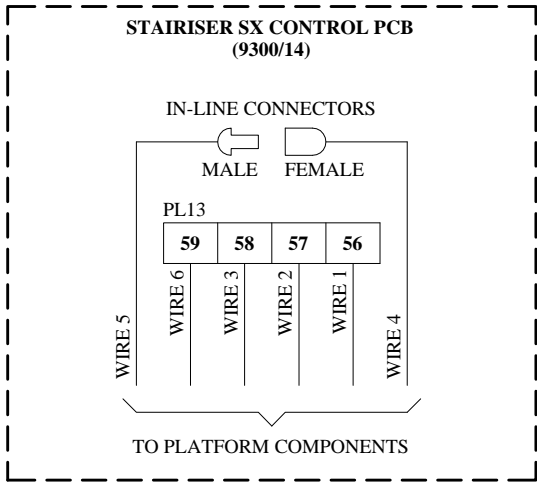
STAIRISER SX BARRIER ARM AND PLATFORM LIMITS/ACTUATOR CONNECTION DETAILS



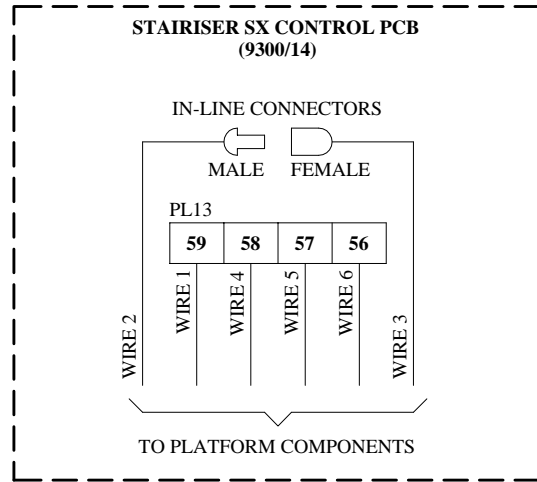
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DRAWING NO: **9230/004** REV: **B**

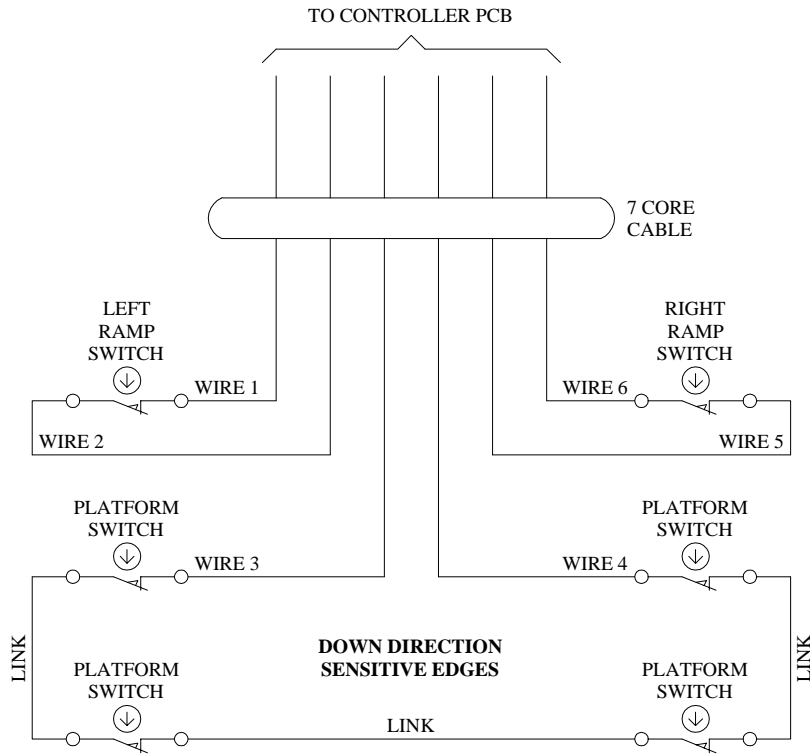
RIGHT HAND LIFT



LEFT HAND LIFT



PLATFORM COMPONENTS



REV B: PL13 TERMINATIONS ALTERED 01/08/05 MH
 REV A: WAGO INTERMEDIATE CONNECTION DELETED 30/05/03 MH

NAME: **M. HOOD** DATE: **17/03/03**
 CHECKED: **R. BAUGH** DATE: **17/03/03**

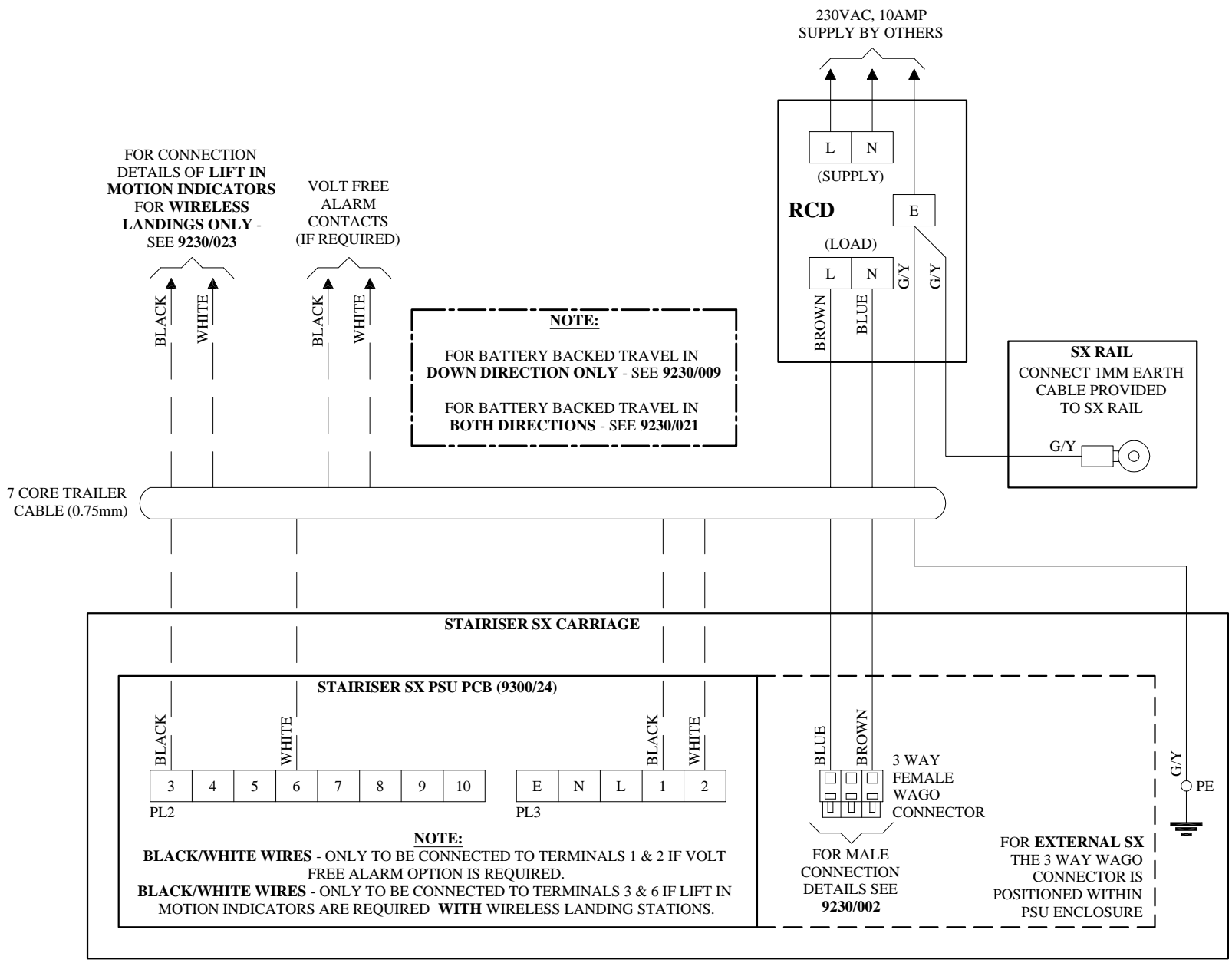
**STAIRISER SX
 PLATFORM SAFETY EDGE
 CONNECTION DETAILS**



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DRAWING NO: **9230/005**

REV: **B**



NAME: **M. HOOD** DATE: **17/03/03**
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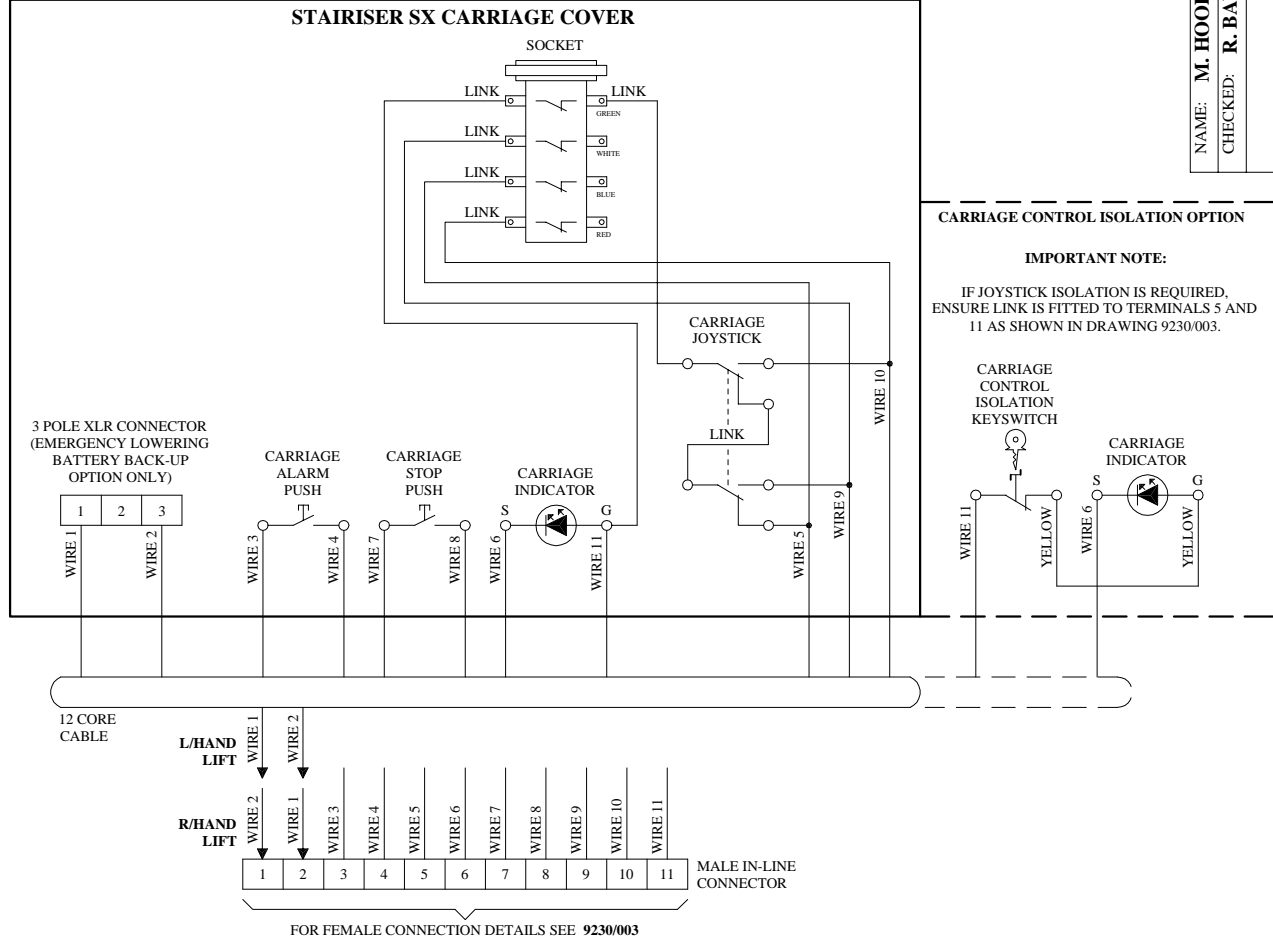
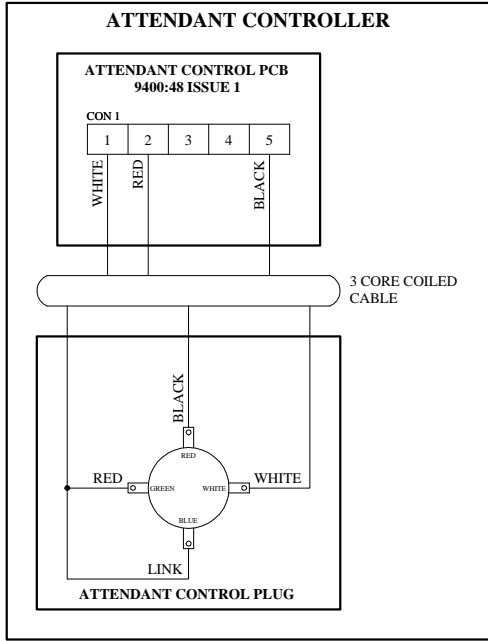
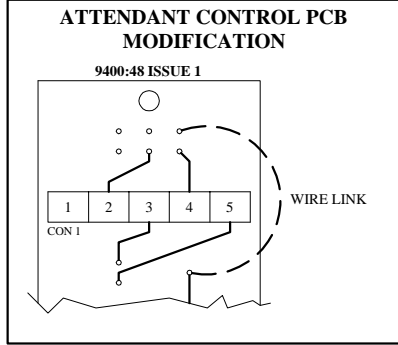
**STAIRISER SX
 MAINS SUPPLY TRAILER
 CONNECTION DETAILS**



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DRAWING NO: **9230/006** REV: **E**

REV E: TRAILER CABLE CHANGED FROM NUMBERED TO COLOURED 06/01/06 MH
 REV D: CONNECTION DETAILS ALTERED FOR WIRELESS LANDING STATIONS 31/03/05 MH
 REV C: CONNECTION DETAILS SHOWN TO MATCH ACTUAL LANDING STATIONS 29/06/04 MH
 REV B: NEW NUMBERED TRAILER CABLE 11/08/03 MH
 REV A: BATTERY BACKUP OPTION NOTE ADDED 23/04/03 MH



NAME: **M. HOOD** DATE: **19/03/03**
 CHECKED: **R. BAUGH** DATE: **19/03/03**

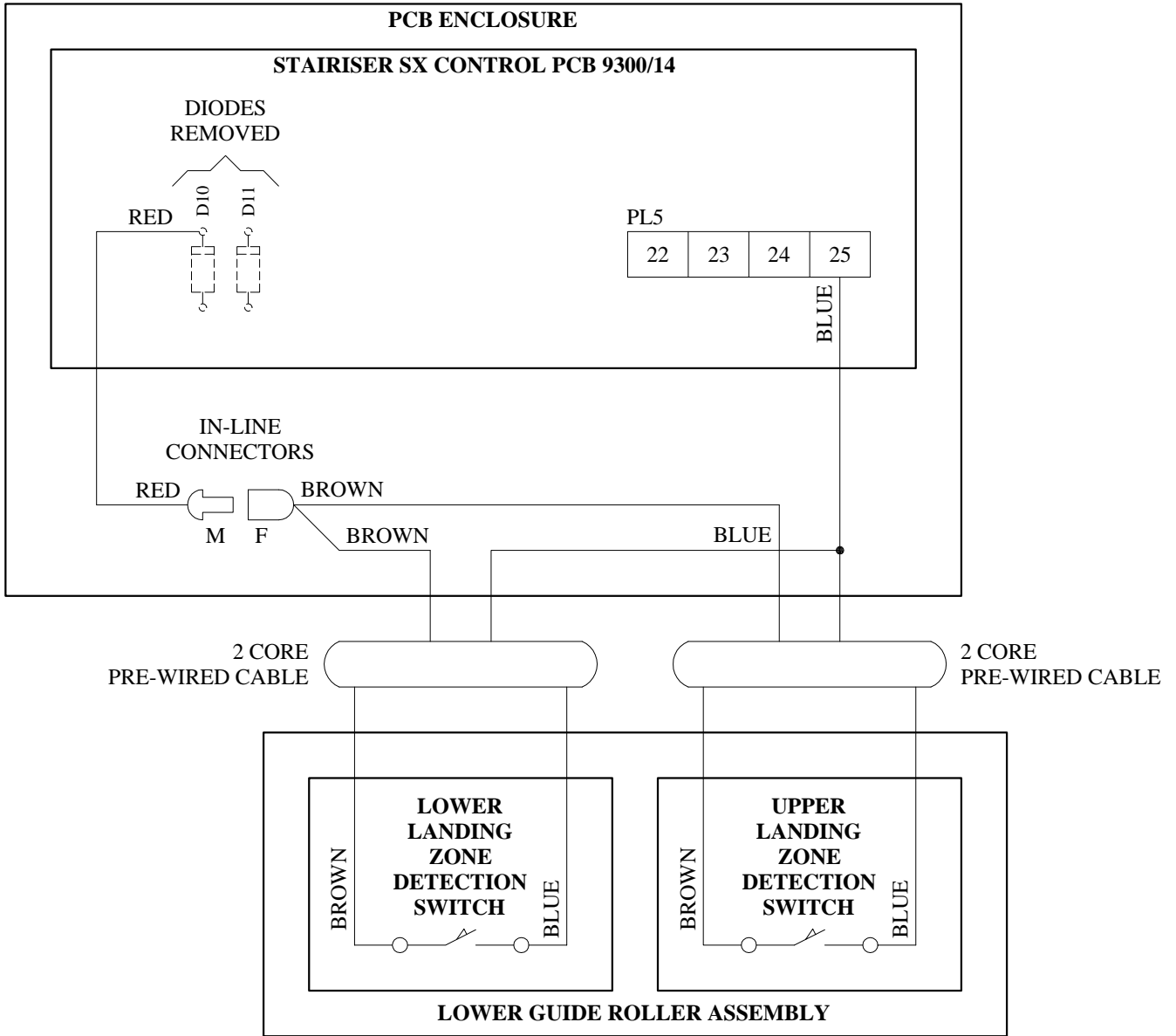
STAIRISER SX
CARRIAGE COVER WITH ATTENDANT
CONTROLLER CONNECTION DETAILS

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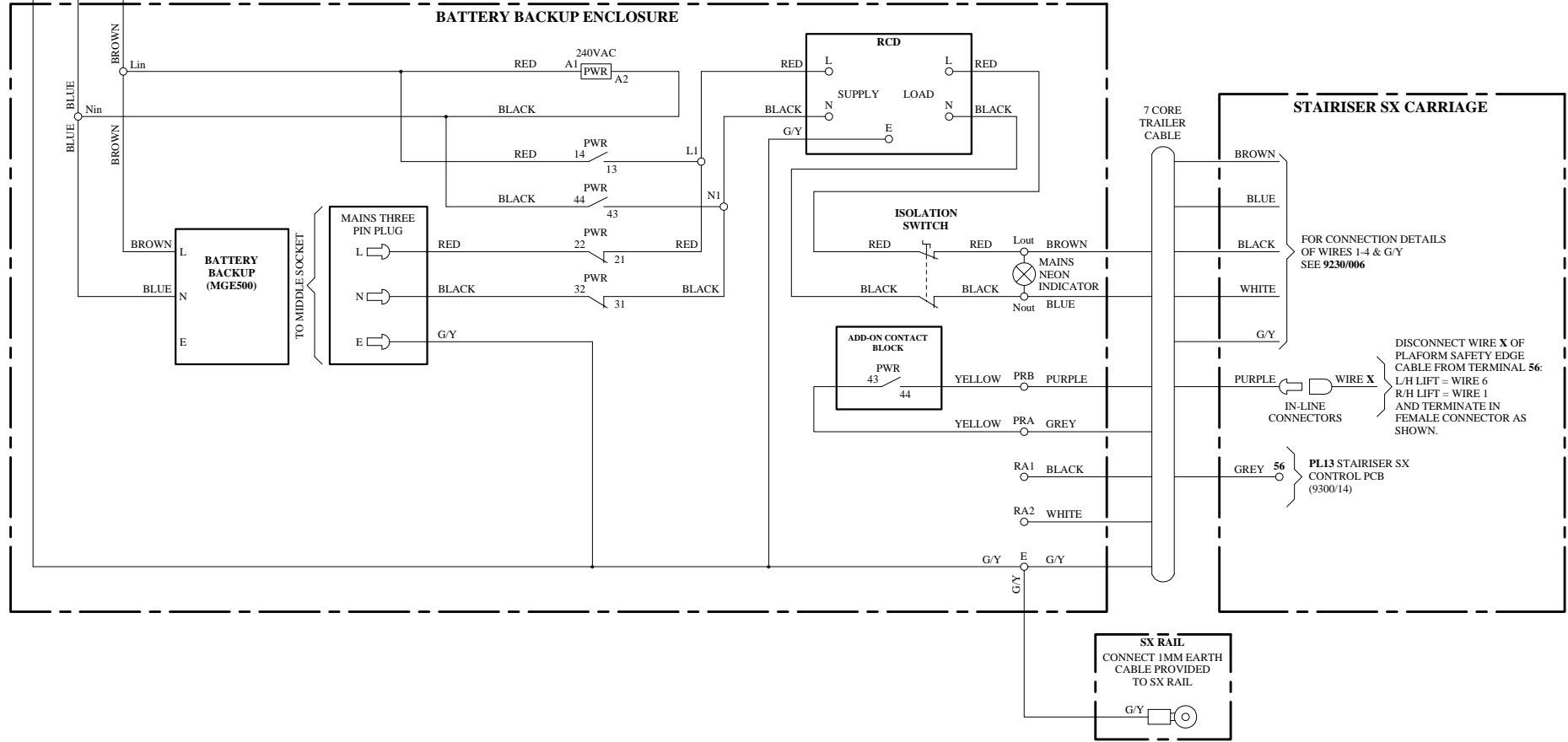
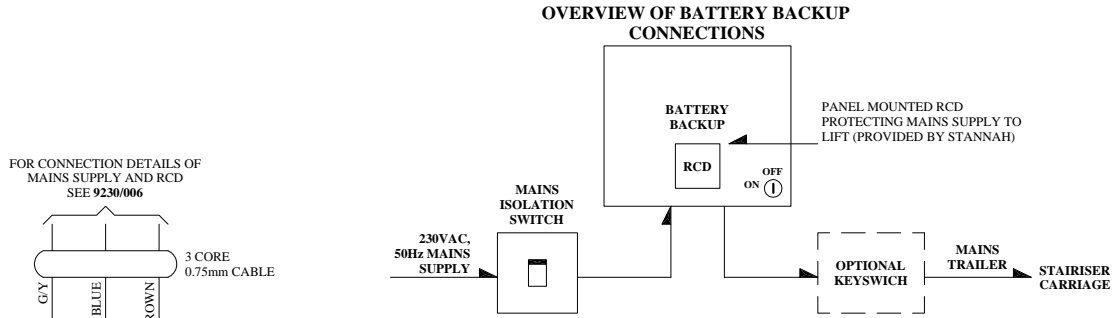
Stannah


DRAWING NO: **9230/007** REV: **D**

REV D: CONNECTION DETAILS OF CARRIAGE CONTROL ISOLATION SHOWN 31/01/06 MH
 REV C: CONNECTOR GENDER ALTERED 21/11/05 MH
 REV B: JACK PLUG SOCKET CONNECTION DETAILS ALTERED 01/08/05 MH
 REV A: CONNECTION DETAILS ALTERED 30/03/05 MH



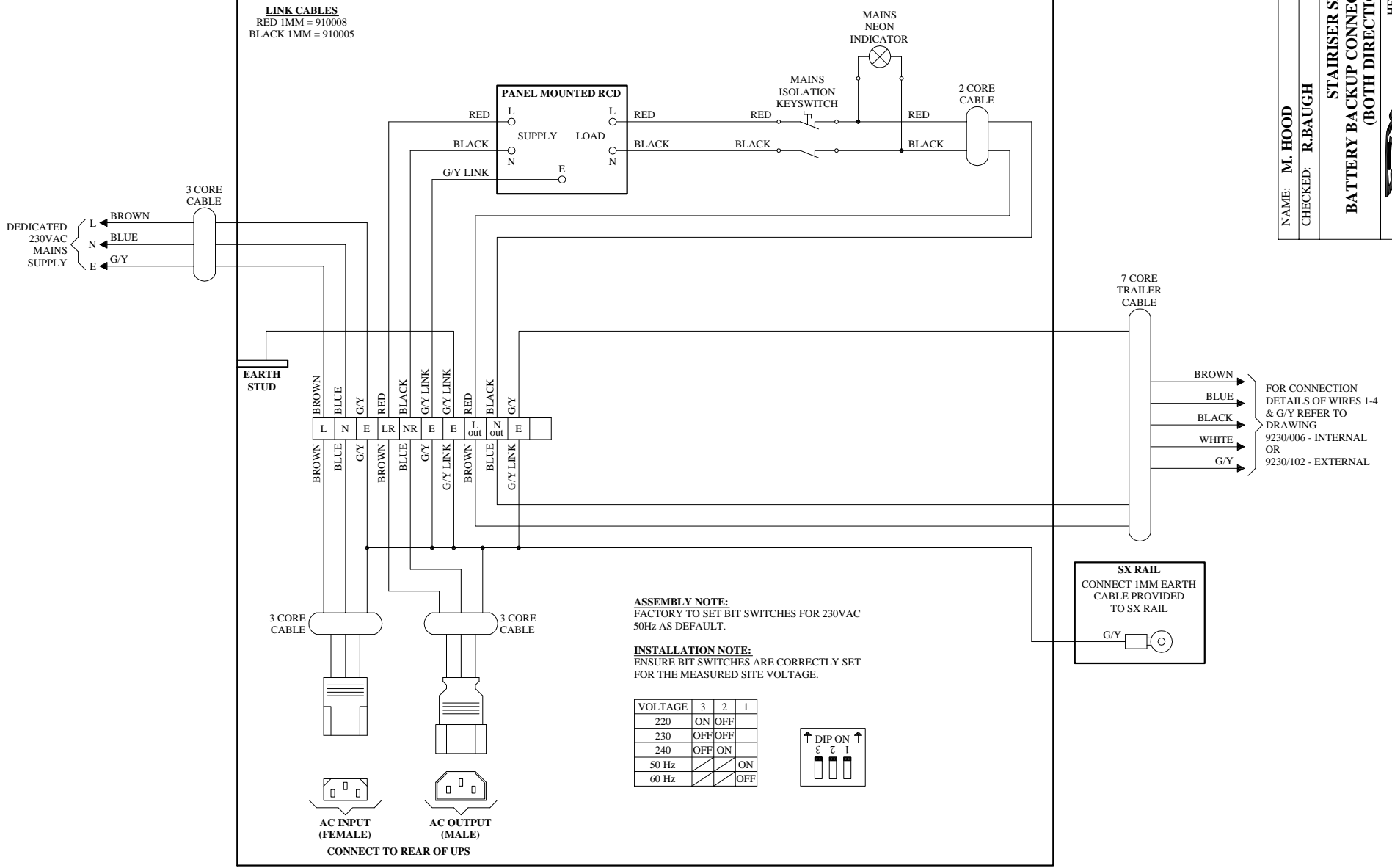
NAME: M. HOOD	DATE: 19/03/03
CHECKED: R. BAUGH	DATE: 19/03/03
STAIRISER SX LANDING ZONE DETECTION SWITCH CONNECTION DETAILS	
<div style="display: inline-block; vertical-align: middle; text-align: left; margin-left: 10px;"> <p><u>HEAD OFFICE:</u> Anton Mill Andover Hampshire SP102NX England Tel: 01264 339090 Fax: 337942</p> </div>	
DRAWING NO: 9230/008	REV: A



NAME: M. HOOD	DATE: 20/03/03
CHECKED: R. BAUGH	DATE: 20/03/03
STAIRISER SX	
BATTERY BACKUP CONNECTION DETAILS	
(DOWN DIRECTION ONLY)	
	
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DRAWING NO: 9230/009	REV: G

REV G: COLOURED TRAILER ALTERED - ORANGE REPLACED WITH PURPLE 04/05/06 MH
 REV F: TRAILER CABLE CHANGED FROM NUMBERED TO COLOURED 09/01/06 MH
 REV E: IN-LINE CONNECTOR NOTE REVISED 22/11/05 MH
 REV D: CONNECTION DETAILS OF RCD ALTERED 01/08/05 MH
 REV C: CONNECTION DETAILS OF RCD ADDED 28/02/05 MH
 REV B: SCHEMATIC CONNECTION DETAILS ADDED 14/07/03 MH
 REV A: BATTERY CHARGER PCB REPLACED WITH UPS SYSTEM 23/04/03 MH

SX UPS ENCLOSURE



NAME: **M. HOOD** DATE: **03/08/04**
 CHECKED: **R.BAUGH** DATE: **03/08/04**

STAIRISER SX
BATTERY BACKUP CONNECTION DETAILS
 (BOTH DIRECTIONS)

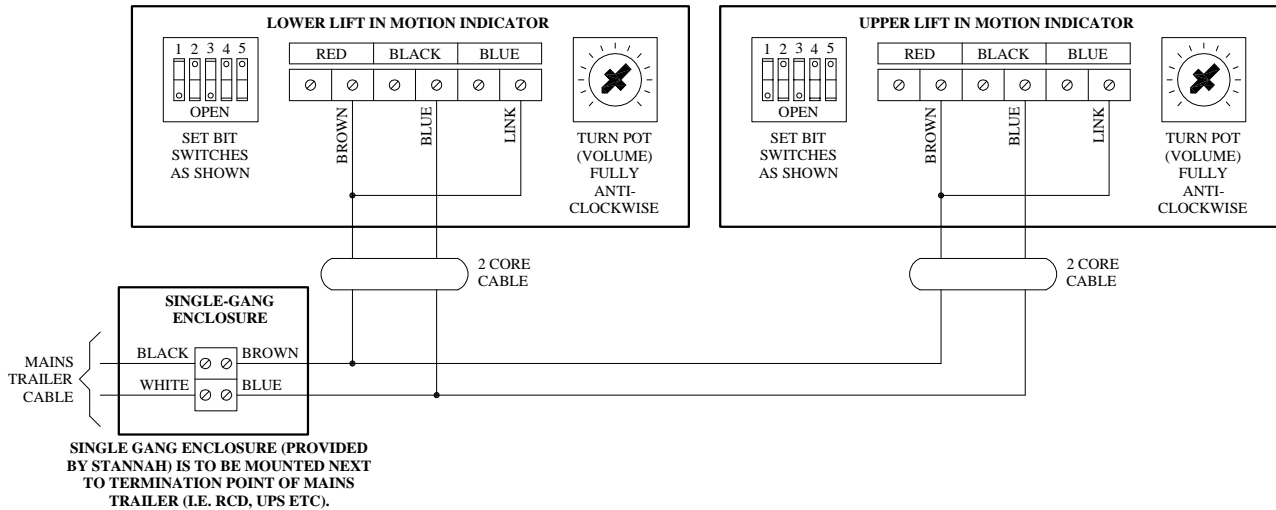


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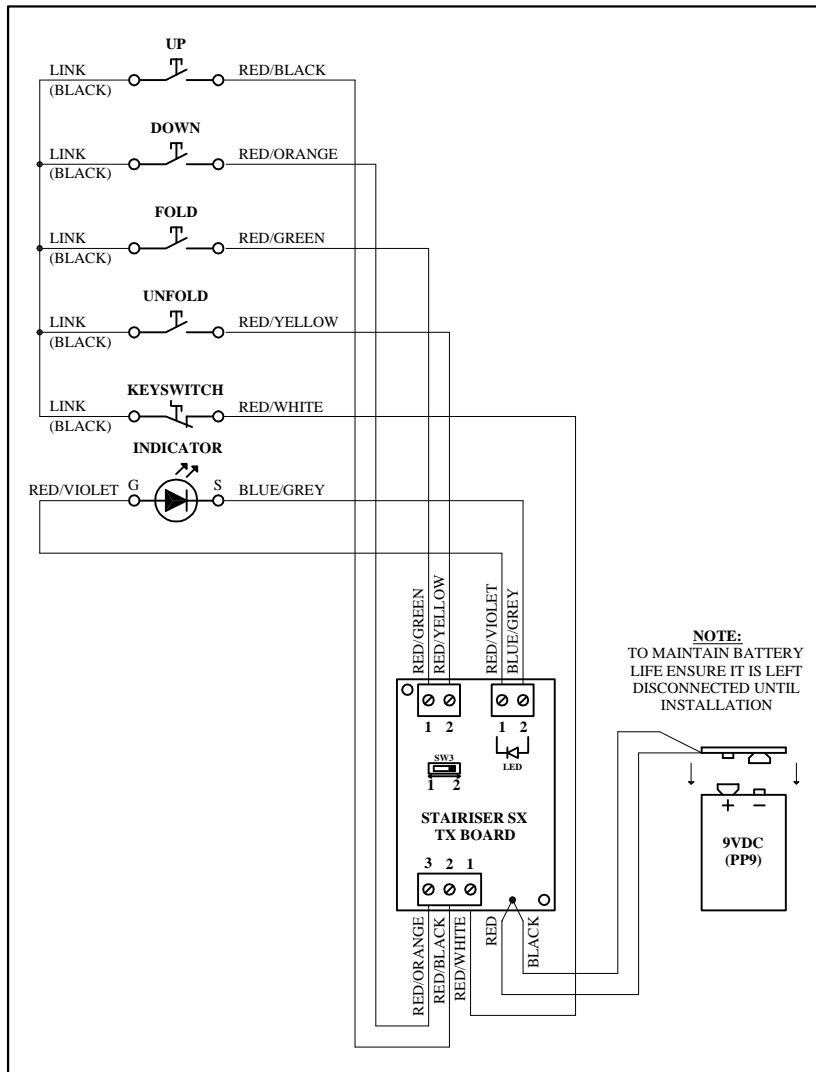
DRAWING NO: **9230/021** REV: **C**

REV C: TRAILER CABLE CHANGED FROM NUMBERED TO COLOURED 09/01/06 MH
 REV B: LINK CABLE COLOUR ALTERED 18/9/05 MH
 REV A: CONNECTION DETAILS OF RCD ADDED 18/02/05 MH

LIFT IN MOTION INDICATORS



WIRELESS LANDING STATION TRANSMITTER



NAME: **M. HOOD** DATE: **17/01/05**

CHECKED: **R. BAUGH** DATE: **17/01/05**

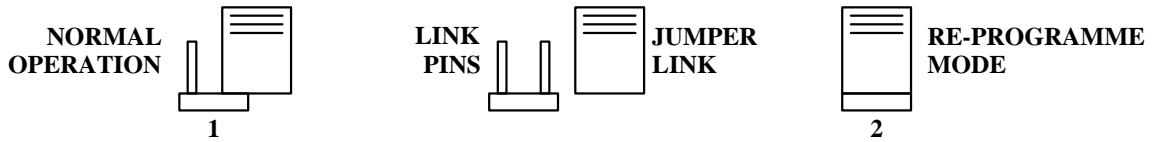
STARISER SX WIRELESS LANDING STATION TRANSMITTER CONNECTION DETAILS



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RE-PROGRAMMING PROCEDURE OF SX WIRELESS RECEIVER PCB

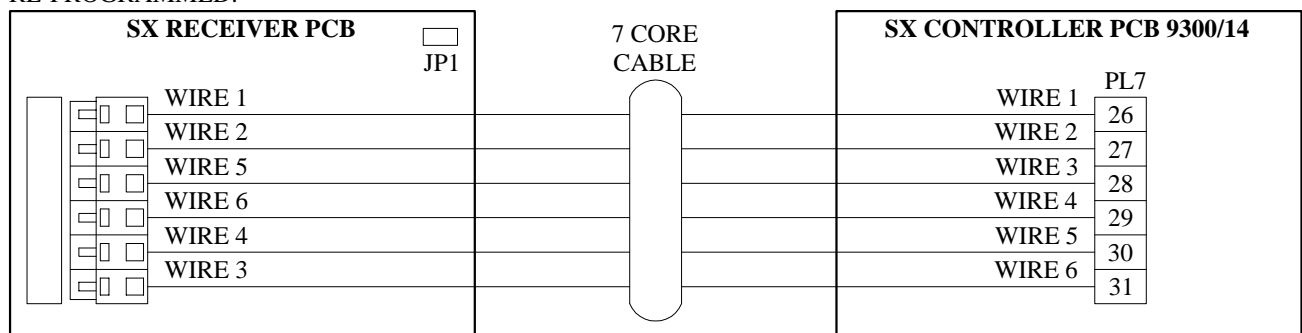


TO RE-PROGRAMME RECEIVER PCB:

1. TURN OFF STAIRISER SX.
2. FIT JUMPER LINK ACROSS BOTH LINK PINS AS SHOWN ABOVE IN '2'.
3. TURN ON STAIRISER SX.
4. OPERATE LANDING STATION/ATTENDANT CONTROLLER UNTIL GREEN LED ON RECEIVER BOARD FLASHES (IF MORE THAN ONE ITEM IS TO BE PROGRAMMED ENSURE THAT THEY ARE OPERATED INDIVIDUALLY).
5. TURN OFF STAIRISER SX.
6. FIT JUMPER LINK ON RECEIVER PCB ACROSS ONE OF THE JUMPER LINK PINS AS SHOWN ABOVE IN '1'.
7. RECEIVER PCB IS NOW PROGRAMMED.

SX LANDING STATION/ATTENDANT CONTROLLER ENCLOSURE

NOTE: ENSURE JUMPER LINK IS IN POSITION '1' (AS SHOWN ABOVE) UNLESS RECEIVER IS TO BE RE-PROGRAMMED.

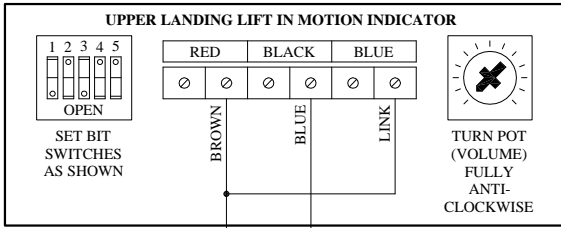


NAME: M. HOOD	DATE: 24/03/05
CHECKED: R. BAUGH	DATE: 24/03/05

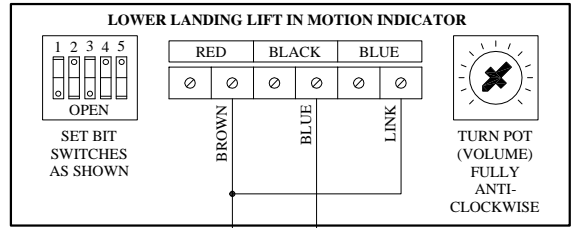
**STARISER SX
WIRELESS LANDING STATION
RECEIVER CONNECTION DETAILS**



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LIFT IN MOTION INDICATORS TO BE MOUNTED NEXT TO ASSOCIATED LANDING STATION

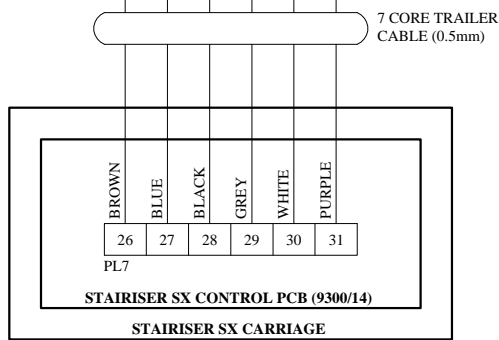
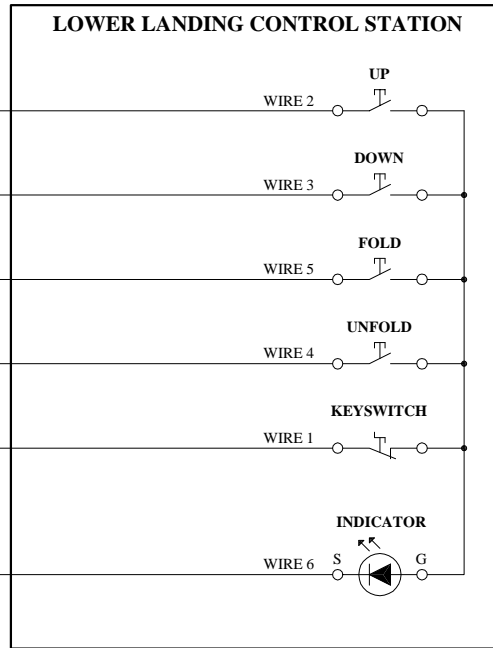
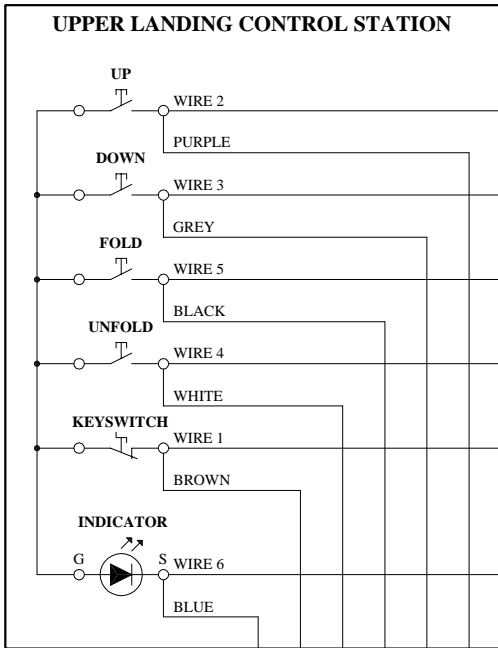


CONNECT TO WIRE 2 OF UPPER LANDING CONTROL STATION UP PUSH

CONNECT TO WIRE 6 OF UPPER LANDING CONTROL STATION INDICATOR

CONNECT TO WIRE 3 OF LOWER LANDING CONTROL STATION DOWN PUSH

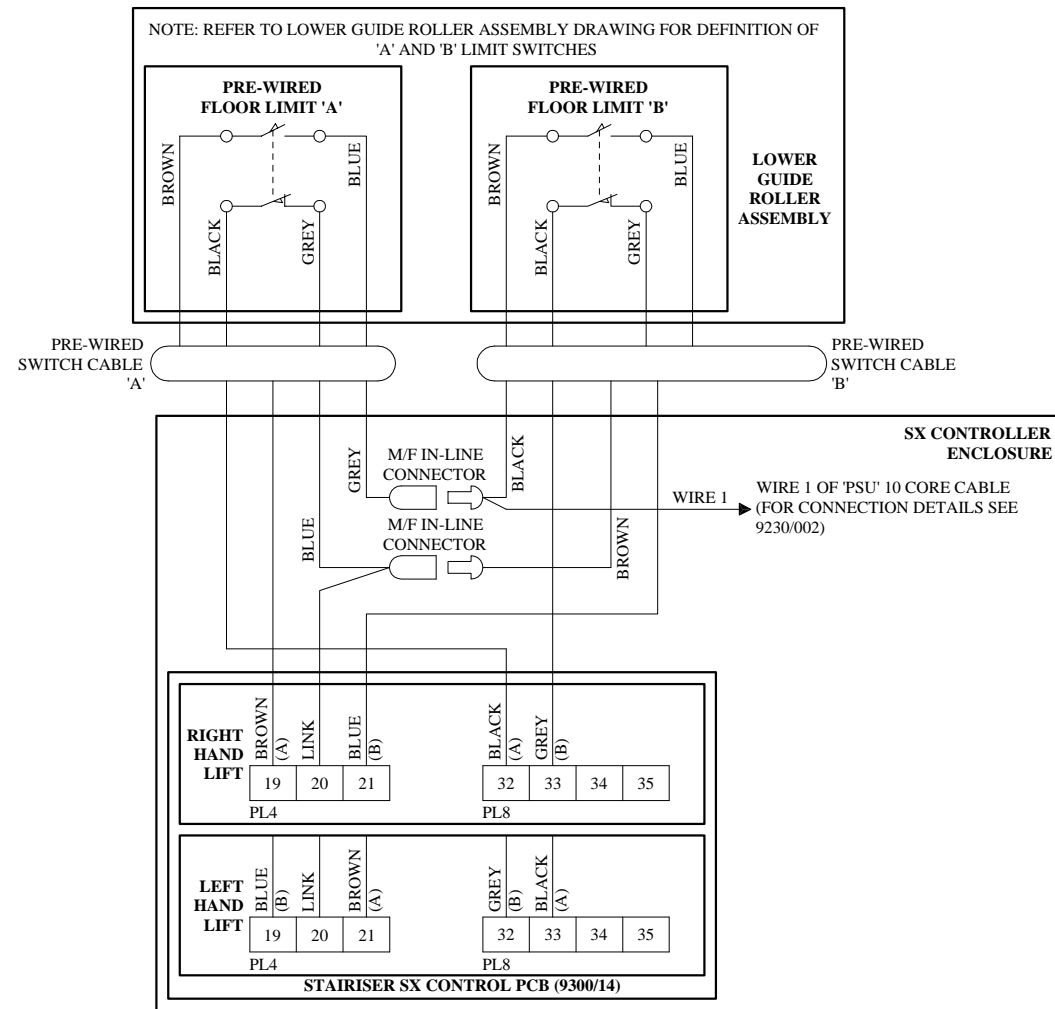
CONNECT TO WIRE 6 OF LOWER LANDING CONTROL STATION INDICATOR



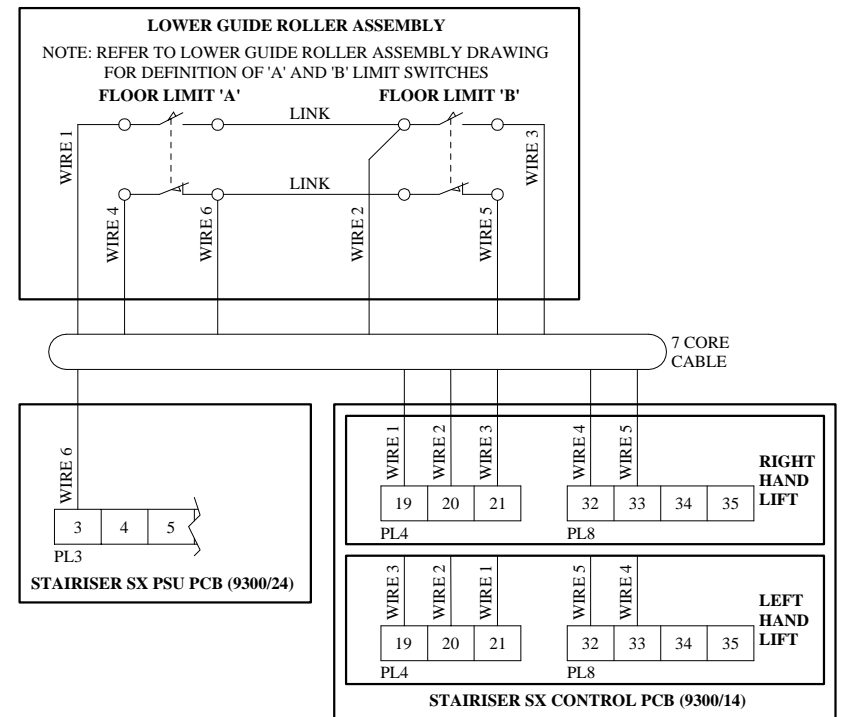
REV C: 7 CORE CABLE CHANGED FROM 0.5mm TO 0.75mm 28/06/06 MH
 REV B: TRAILER CABLE ALTERED - ORANGE REPLACED WITH PURPLE 04/05/06 MH
 REV A: TRAILER CABLE CHANGED FROM NUMBERED TO COLOURED 06/01/06 MH

NAME: M. HOOD	DATE: 24/03/05
CHECKED: R. BAUGH	DATE: 24/03/05
STAIRISER SX HARD-WIRED LANDING STATION CONNECTION DETAILS	
	
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DRAWING NO: 9230/029	REV: C

LIMIT SWITCH CONNECTIONS - EXTERNAL SX



LIMIT SWITCH CONNECTIONS - INTERNAL SX



HAND	SWITCH 'A'	SWITCH 'B'
LEFT HAND LIFT	UPPER FLOOR LIMIT	LOWER FLOOR LIMIT
RIGHT HAND LIFT	LOWER FLOOR LIMIT	UPPER FLOOR LIMIT

NAME: **M. HOOD** DATE: **24/03/05**
 CHECKED: **R. BAUGH** DATE: **24/03/05**

STAIRISER SX LIMIT SWITCH CONNECTION DETAILS



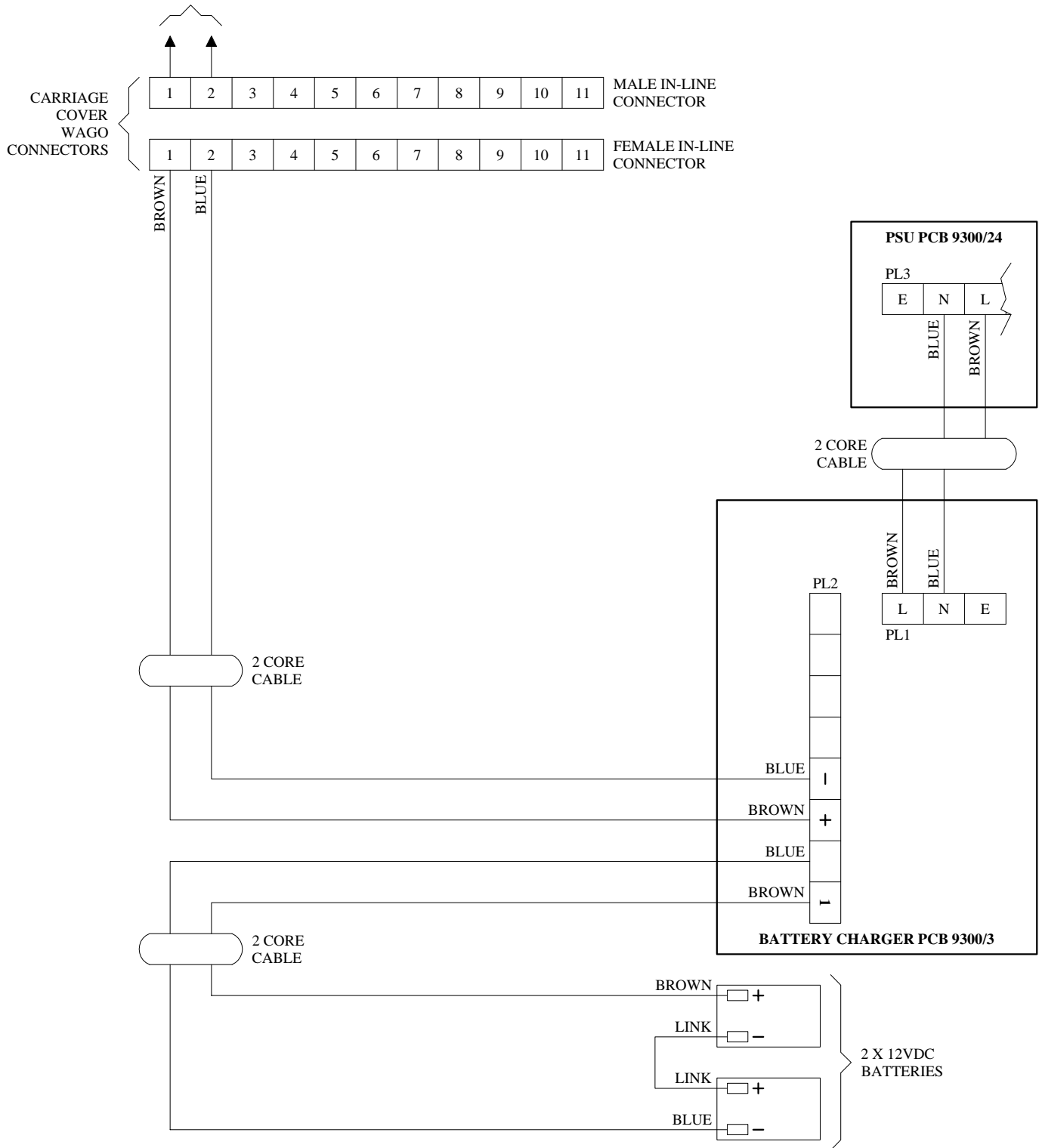
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Tel: 01264 339090 Fax: 337942

DRAWING NO: **9230/030**

REV:

FOR CONNECTION DETAILS OF
XLR CONNECTOR SEE
DRAWING 9230/003



REV B: CONNECTION DETAILS OF PSU PCB ALTERED 28/06/06 MH
REV A: PLUG GENDER ALTERED 04/05/06 MH

NAME: **M. HOOD** DATE: **20/03/03**
CHECKED: **R. BAUGH** DATE: **20/03/03**

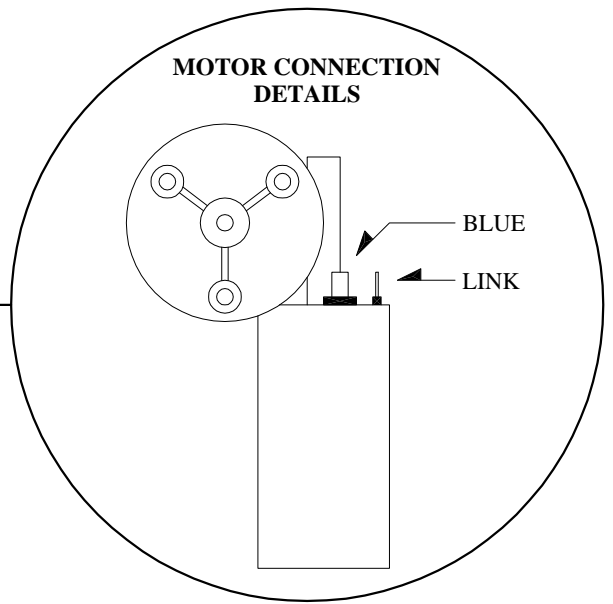
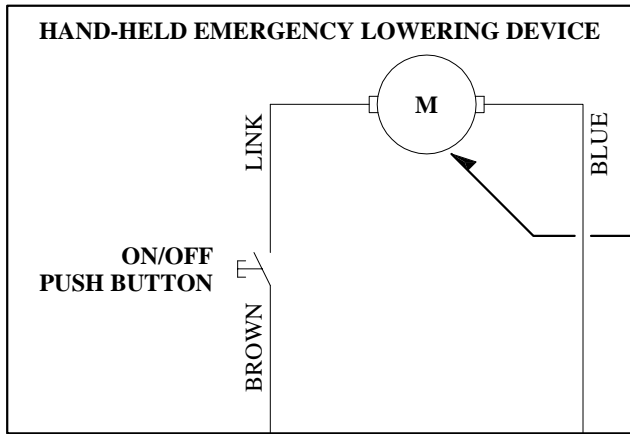
**STAIRISER SX HAND-HELD
EMERGENCY LOWERING DEVICE
SUPPLY CONNECTION DETAILS**



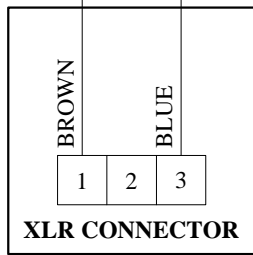
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DRAWING NO: **9230/031**

REV: **B**

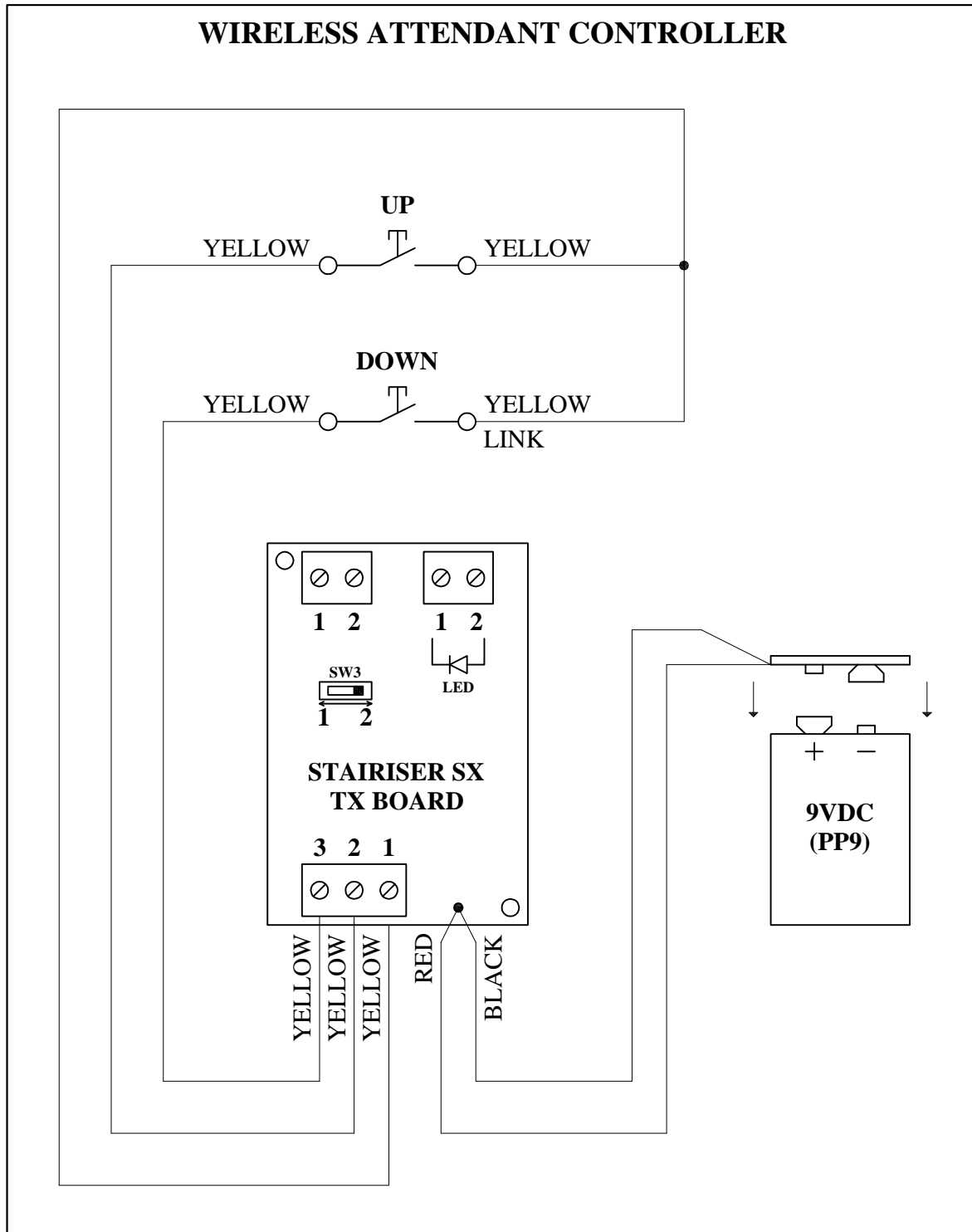


2 CORE CABLE




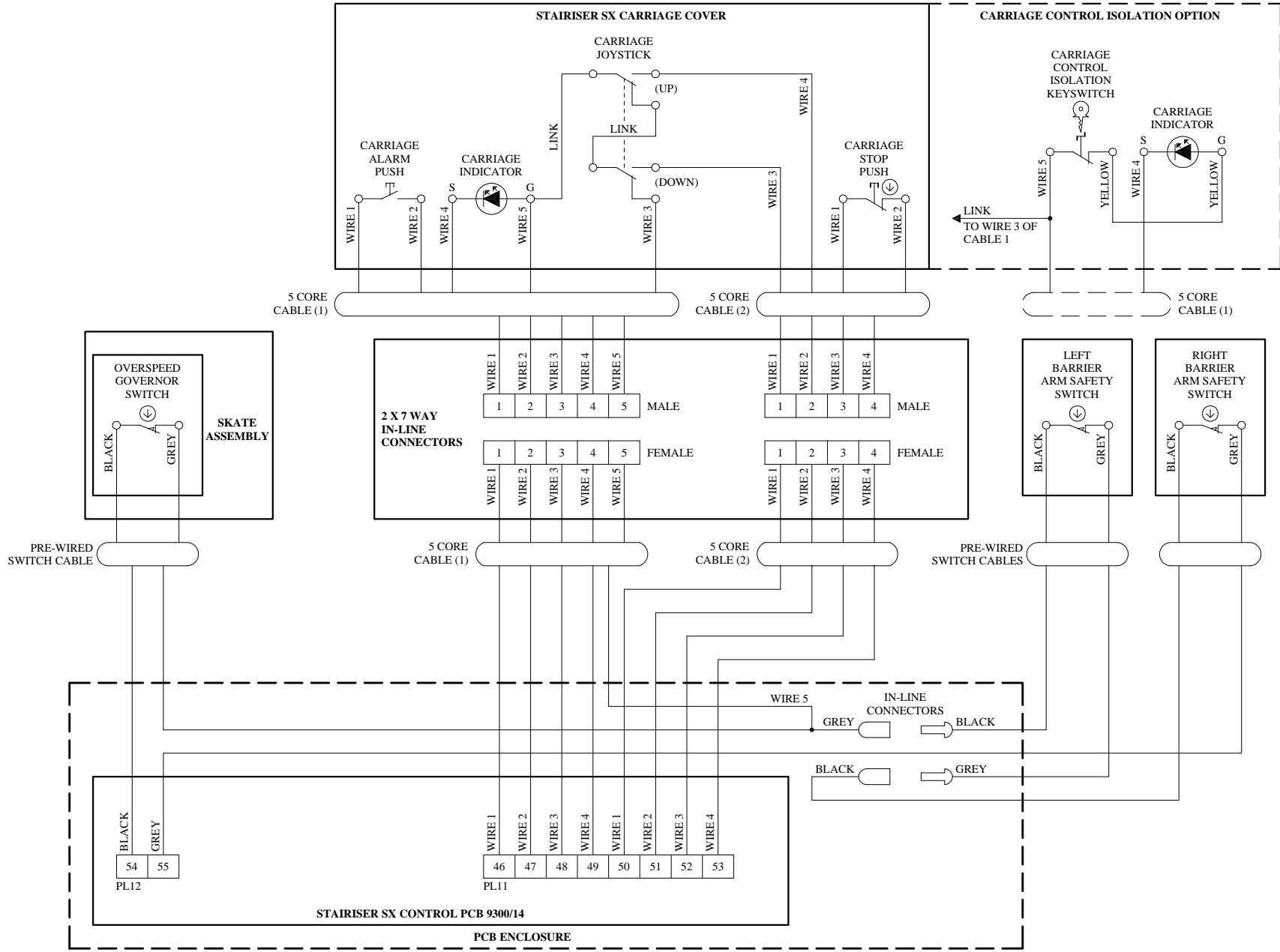
NAME: M. HOOD	DATE: 22/11/05
CHECKED: R. BAUGH	DATE: 22/11/05
STARISER SX HAND-HELD EMERGENCY LOWERING DEVICE CONNECTION DETAILS	
	HEAD OFFICE: Anton Mill Andover Hampshire SP102NX England
	Tel: 01264 339090 Fax: 337942
DRAWING NO: 9230/039	REV:

WIRELESS ATTENDANT CONTROLLER



RE-PROGRAMME RECEIVER PCB:
 TO RE-PREPROGRAMME THE RECEIVER PCB
 WITHIN THE STAIRISER CARRIAGE, REFER
 TO SX WIRING MANUAL DRAWING
9230/028.

NAME: M. HOOD	DATE: 03/08/05
CHECKED: R. BAUGH	DATE: 03/08/05
STAIRISER SX WIRELESS ATTENDANT CONTROL CONNECTION DETAILS	
	
HEAD OFFICE: Anton Mill Andover Hampshire SP102NX England Tel: 01264 339090 Fax: 337942	
DRAWING NO: 9230/037	REV:



NAME: **M. HOOD** DATE: **14/03/02**
 CHECKED: **R. BAUGH** DATE: **14/03/03**

**EXTERNAL STAIRISER SX
 CARRIAGE COVER AND OSG
 CONNECTION DETAILS**



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 SP102NX England

Tel: 01264 339090 Fax: 337942

DRAWING NO: **9230/103** REV: **E**

REV E: CONNECTION DETAILS OF CARRIAGE CONTROL ISOLATION SHOWN 31/01/06 MH
 REV D: BARRIER ARM SAFETY SWITCHES CHANGED TO PRE-WIRED SWITCHES 22/11/05 MH
 REV C: OVERSPEED GOVERNOR SWITCH CABLE COLOURS ALTERED 26/08/05 MH
 REV B: CONNECTION DETAILS ALTERED 30/03/05 MH
 REV A: CARRIAGE STOP PUSH CHANGES TO A N/C CONTACT 03/06/03 MH

RIGHT HAND LIFT

LEFT HAND LIFT

STAIRISER SX CONTROL PCB
(9300/14)

STAIRISER SX CONTROL PCB
(9300/14)

IN-LINE CONNECTORS

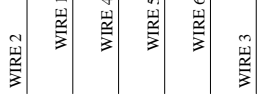
IN-LINE CONNECTORS

MALE FEMALE

MALE FEMALE

PL13
59 58 57 56

PL13
59 58 57 56

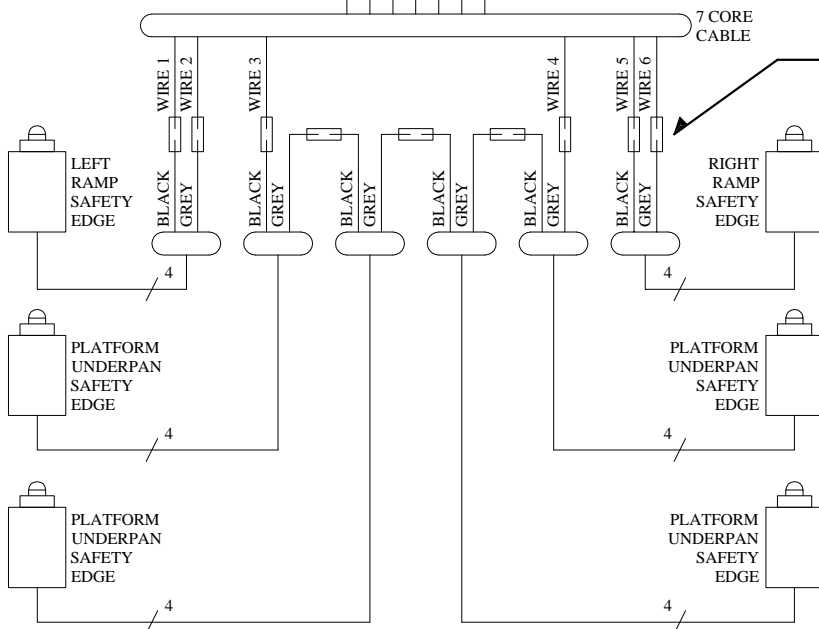


TO PLATFORM COMPONENTS

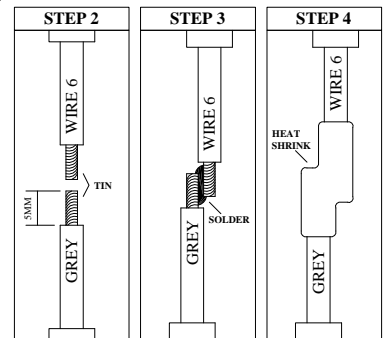
TO PLATFORM COMPONENTS

PLATFORM COMPONENTS

TO CONTROLLER PCB



CONNECTION EXAMPLE



REV B: PRE-WIRED SWITCH CONNECTION DETAIL ADDED 27/06/06 MH
REV A: CONNECTION DETAILS OF PL13 ALTERED 23/06/05 MH

NAME: **M. HOOD** DATE: **17/03/03**
CHECKED: **R. BAUGH** DATE: **17/03/03**

**EXTERNAL STAIRISER SX
PLATFORM SAFETY EDGE
CONNECTION DETAILS**




HEAD OFFICE:
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Andover Hampshire
SP102NX England

Tel: 01264 339090 Fax: 337942

DRAWING NO: **9230/104**

REV: **B**

	VISUAL INSPECTION	CAUSE	SOLUTION
LIFT NOT RUNNING	NO CONTROLLER LED's ALIGHT	MAINS SUPPLY HAS FAILED OR HAS BEEN SWITCHED OFF.	INVESTIGATE MAINS SUPPLY AND BRING BACK ON LINE.
		BATTERY BACKUP SUPPLY HAS BEEN LOST OR HAS BEEN SWITCHED OFF.	INVESTIGATE MAINS SUPPLY AND BRING BACK ON LINE. RESET RCD ON BACKUP UNIT AND TURN ON LIFT ISOLATION SWITCH
		FS1 OF EITHER PSU PCB OR CARRIAGE CONTROL PCB HAVE BLOWN.	INVESTIGATE CAUSE OF BLOWN FUSE, REPLACE WITH CORRECT VALUE AND TURN ON LIFT SUPPLY.
	'+24V' LED ALIGHT BUT <u>NOT</u> 'S2' LED	CARRIAGE COVER STOP SWITCH IS ACTIVATED.	RESET CARRIAGE COVER STOP SWITCH.
		CARRIAGE COVER NOT CONNECTED.	RECONNECT CARRIAGE COVER OR FIT SHORTING PLUG.
	'+24V' LED AND 'S2' LED ALIGHT BUT CARRIAGE COVER LED IS <u>NOT</u> ALIGHT.	OVERSPEED GOVERNOR HAS TRIPPED.	RESET OVERSPEED GOVERNOR (PUSH RESET ROD TOWARDS LOWER LANDING).
'+24', 'S2' AND CARRIAGE COVER LED's ALL ALIGHT.	NO VOLTAGE PRESENT AT TERMINAL '55'.	BARRIER ARM SAFETY SWITCH IS ACTIVATED. ADJUST CAM/SWITCH.	
	NO VOLTAGE PRESENT AT TERMINAL '56' (UP DIRECTION) OR AT TERMINAL '58' (DOWN DIRECTION).	PLATFORM SAFETY EDGE ACTIVATED. CHECK PLATFORM RAMPS AND UNDERPAN.	
BARRIER ARMS/PLATFORM ACTUATORS CURRENT LIMITING	BARRIER ARM REACHING VERTICAL POSITION AND THEN BACK DRIVING.	BARRIER ARM REACHING MECHANICAL STOP BEFORE FOLD LIMIT SWITCH HAS BEEN ACTIVATED.	ADJUST BARRIER ARM FOLD LIMIT SWITCH/CAM.
	BARRIER ARM REACHING HORIZONTAL POSITION AND THEN BACK DRIVING.	BARRIER ARM REACHING MECHANICAL STOP BEFORE UNFOLD LIMIT SWITCH HAS BEEN ACTIVATED.	ADJUST BARRIER ARM UNFOLD LIMIT SWITCH/CAM.
	BARRIER ARMS STOPPING AND BACKDRIVING IN BETWEEN FOLD AND UNFOLD LIMITS.	SENSITIVITY OF BARRIER ARM CURRENT LIMIT CIRCUIT SET TOO LOW.	ADJUST VR1 OR VR3 ON MAIN CONTROL PCB. (TURN CLOCKWISE TO REDUCE SENSITIVITY).
		BARRIER ARM IS MECHANICALLY OBSTRUCTED IN ITS MOVEMENT.	CHECK BARRIER ARM MECHANISM FOR OBSTRUCTION (WELD SPLATTER, SWARF ETC) AND APPLY GREASE.
	BARRIER ARMS AND PLATFORM STOPPING DURING FOLD/UNFOLD SEQUENCE.	PLATFORM REACHING MECHANICAL STOP BEFORE UNFOLD/FOLD LIMIT SWITCH HAS BEEN ACTIVATED.	ADJUST PLATFORM FOLD/UNFOLD LIMIT SWITCH/CAM.
SENSITIVITY OF PLATFORM CURRENT LIMIT CIRCUIT SET TOO LOW.		ADJUST VR2 ON MAIN CONTROL PCB. (TURN CLOCKWISE TO REDUCE SENSITIVITY).	
LIFT NOT OPERATING FROM LANDING STATIONS	LIFT NOT RUNNING FROM WIRELESS LANDING STATIONS WITH LANDING STATION LED <u>NOT</u> ILLUMINATING WHEN BUTTON IS PRESSED.	LANDING ISOLATED VIA KEYSWITCH.	OPERATE LANDING ISOLATION KEYSWITCH.
		LANDING STATION BATTERY IS FLAT.	REPLACE LANDING STATION BATTERY.
	LIFT NOT RUNNING FROM WIRELESS LANDING STATIONS BUT LANDING STATION LED ILLUMINATES (FLASHES) WHEN BUTTON IS PRESSED.	WIRELESS RECEIVER PCB REQUIRES RE-PROGRAMMING.	REFER TO DRWAING 9230/028 OF THIS WIRING MANUAL FOR RE-PROGRAMMING PROCEDURE.

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