



OIL & STEEL Macchine per lavoro aereo
Via G. Verdi, 22
41018 SAN CESARIO S/P (Mo) - Italy

Mobile elevating work platform (MEWP)



2112 CITY UK

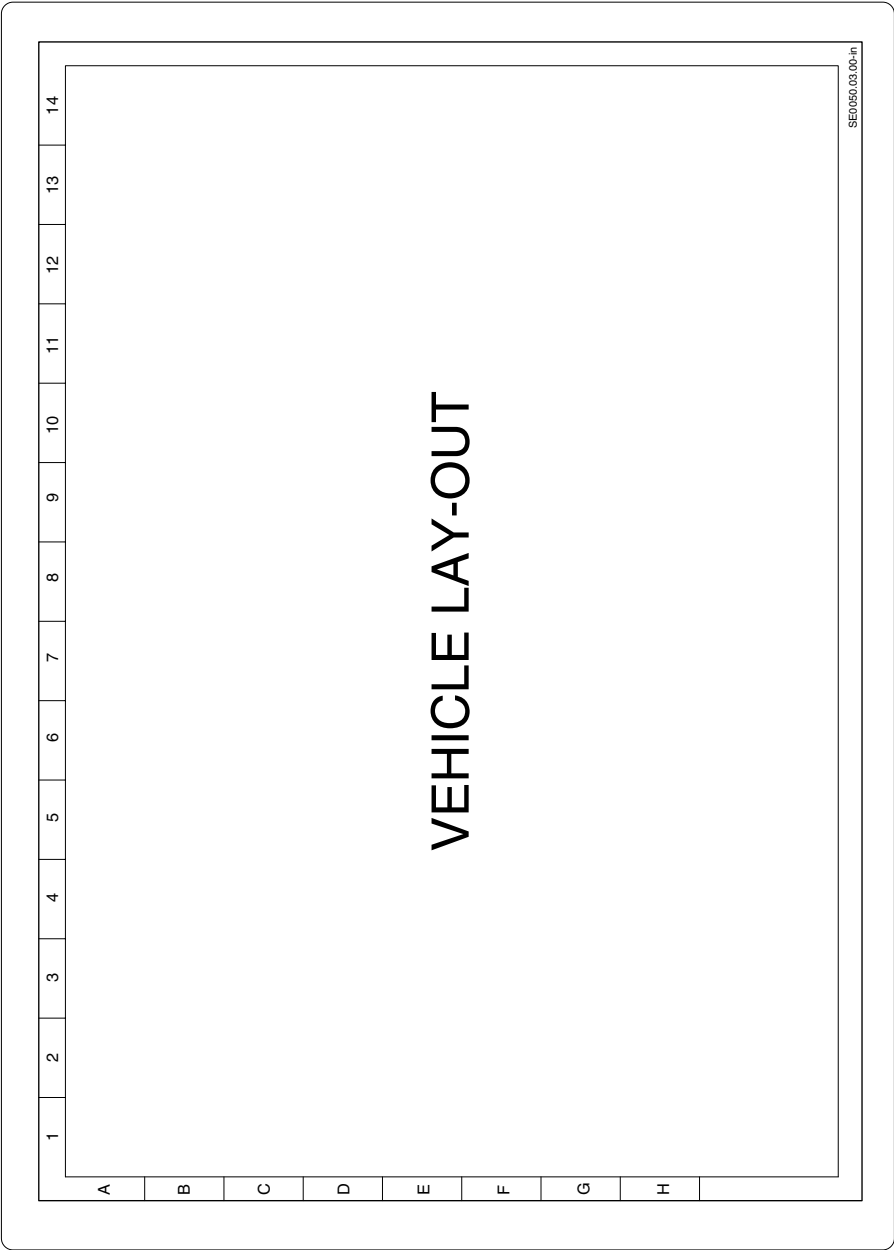


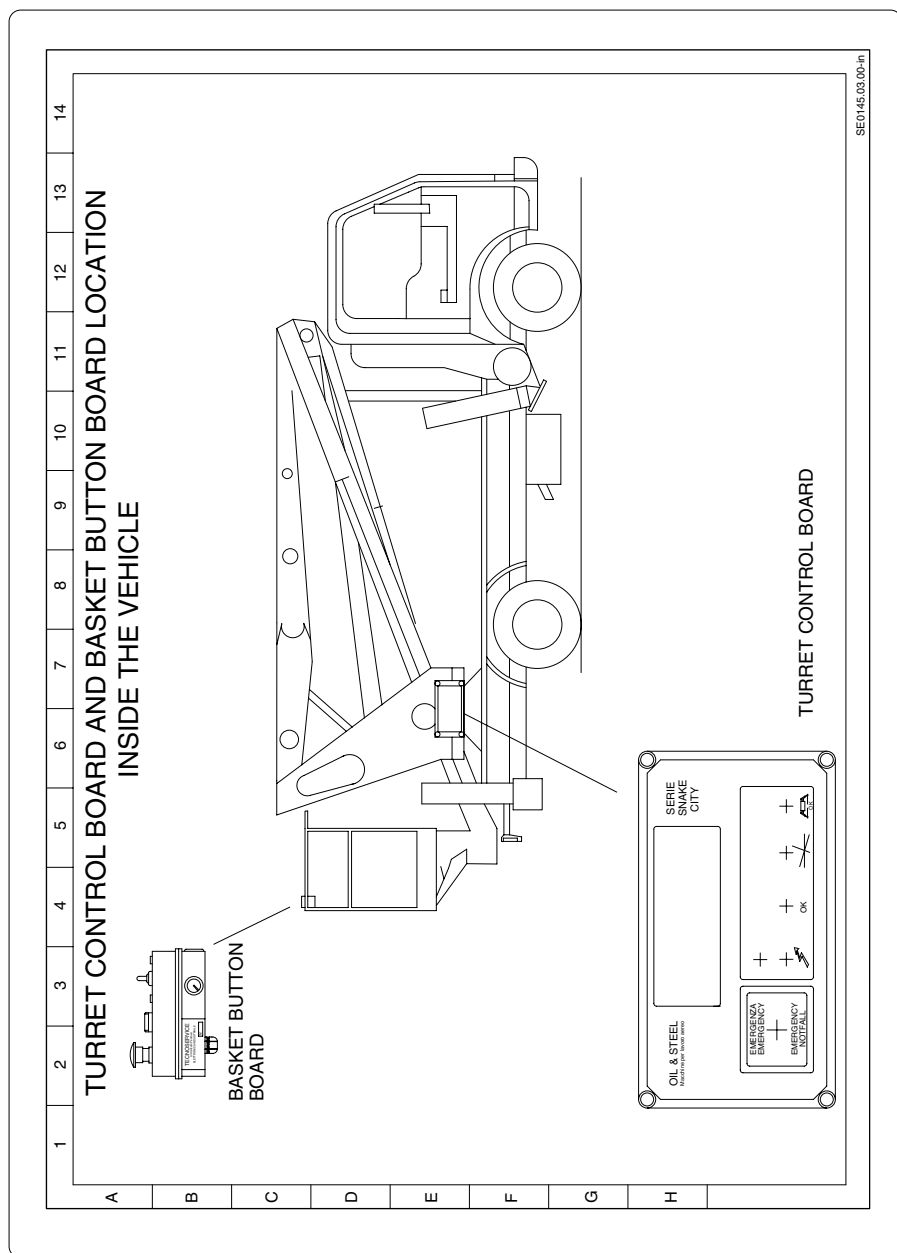
Electric diagrams manual Enclosure A

Edition : 02/2006

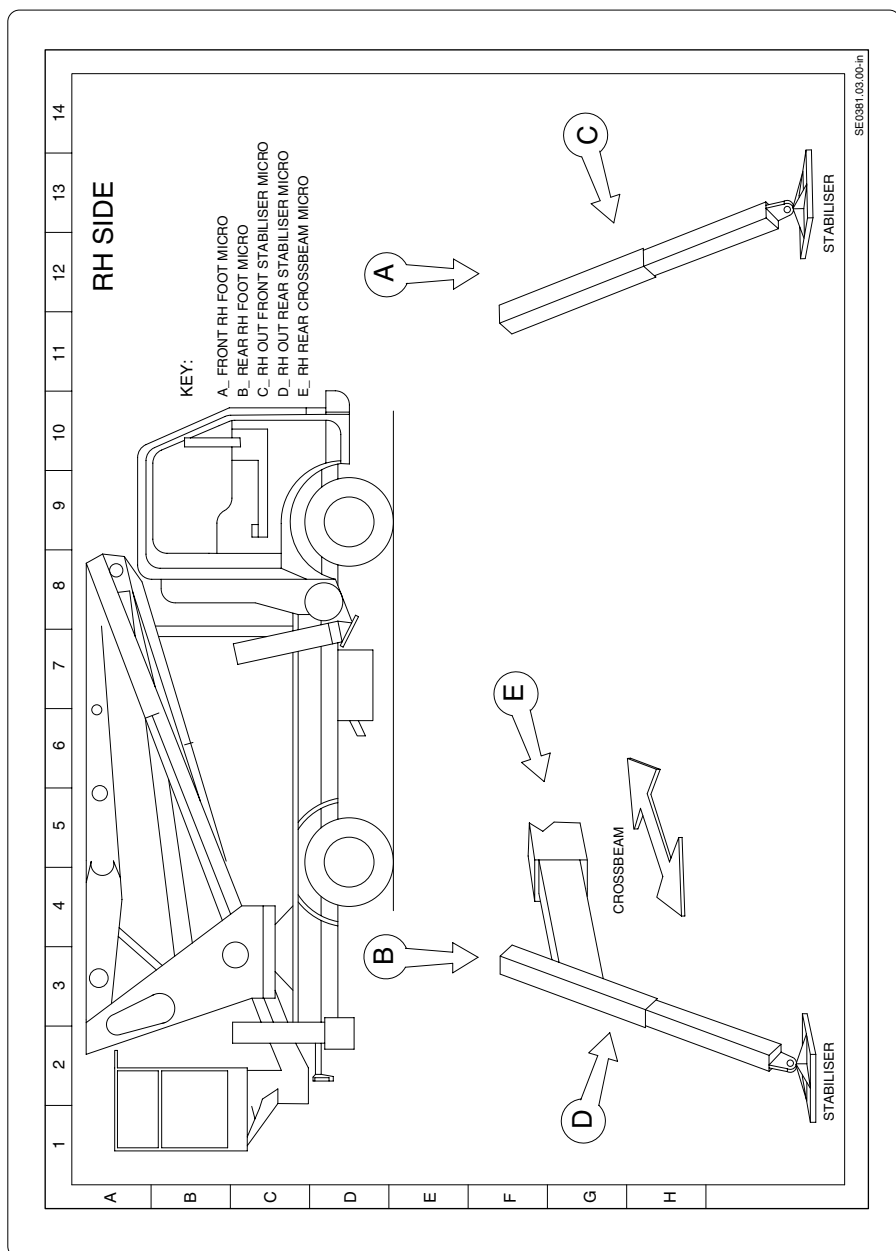
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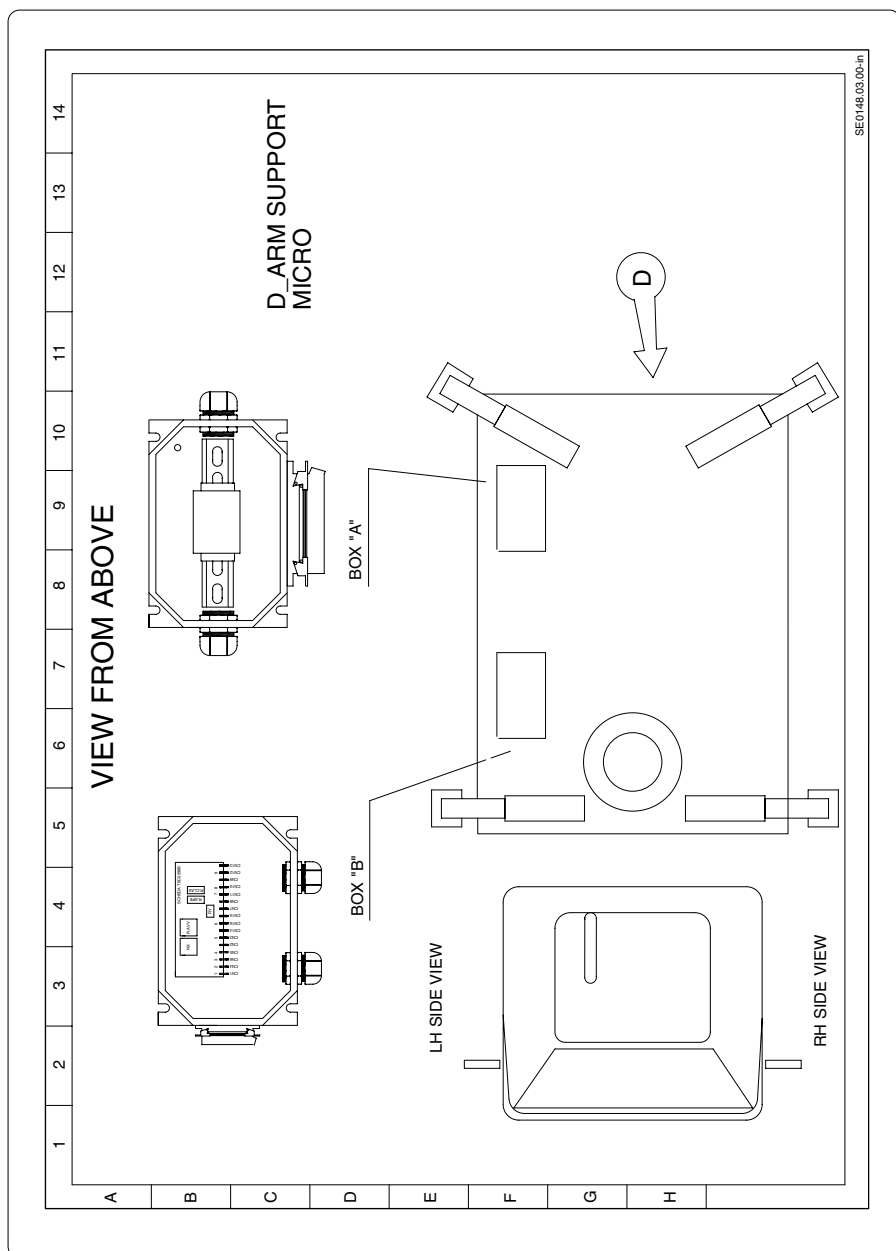
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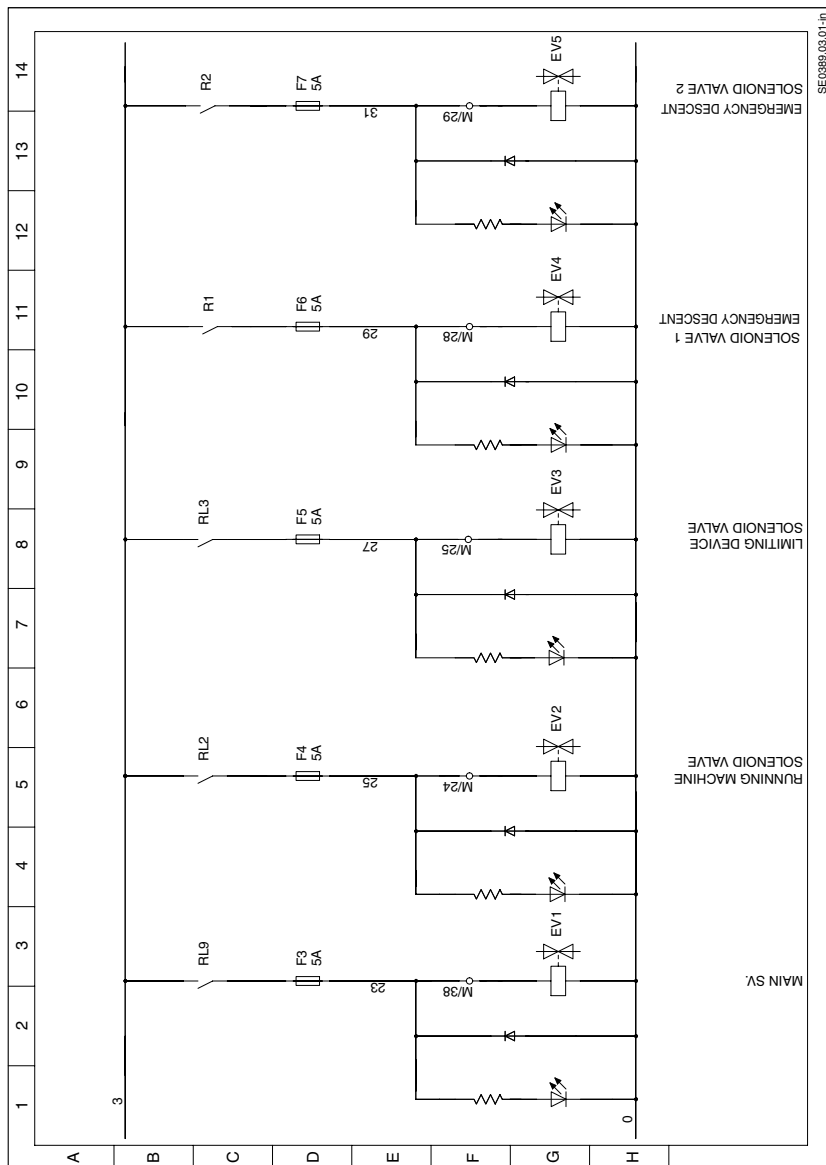




ELECTRIC DIAGRAM

SF0052 03 00-in



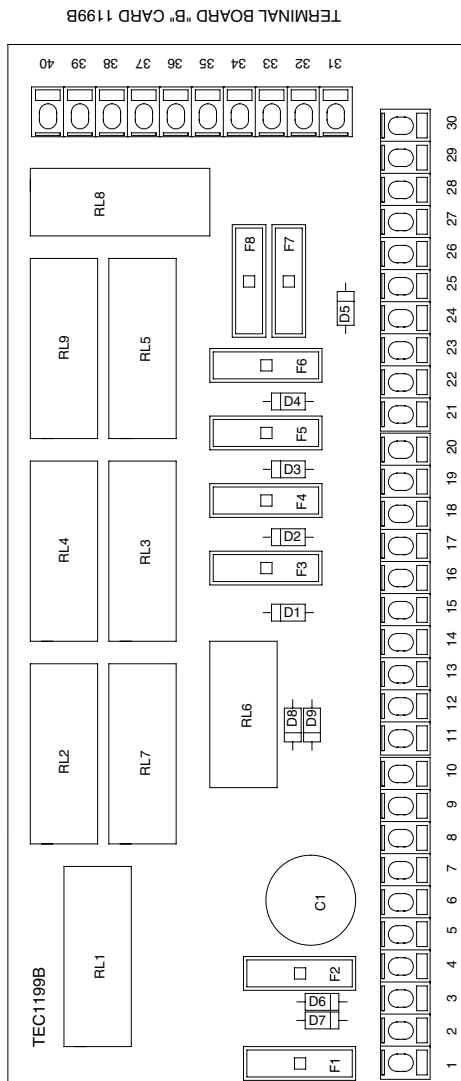


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A	B	C	D	E	F	G	H						

TEC1199B CARD

SE0365 03.00 in

TEC1199B CARD DESCRIPTION



TERMINAL BOARD "A" CARD 1199B

REFERENCE :

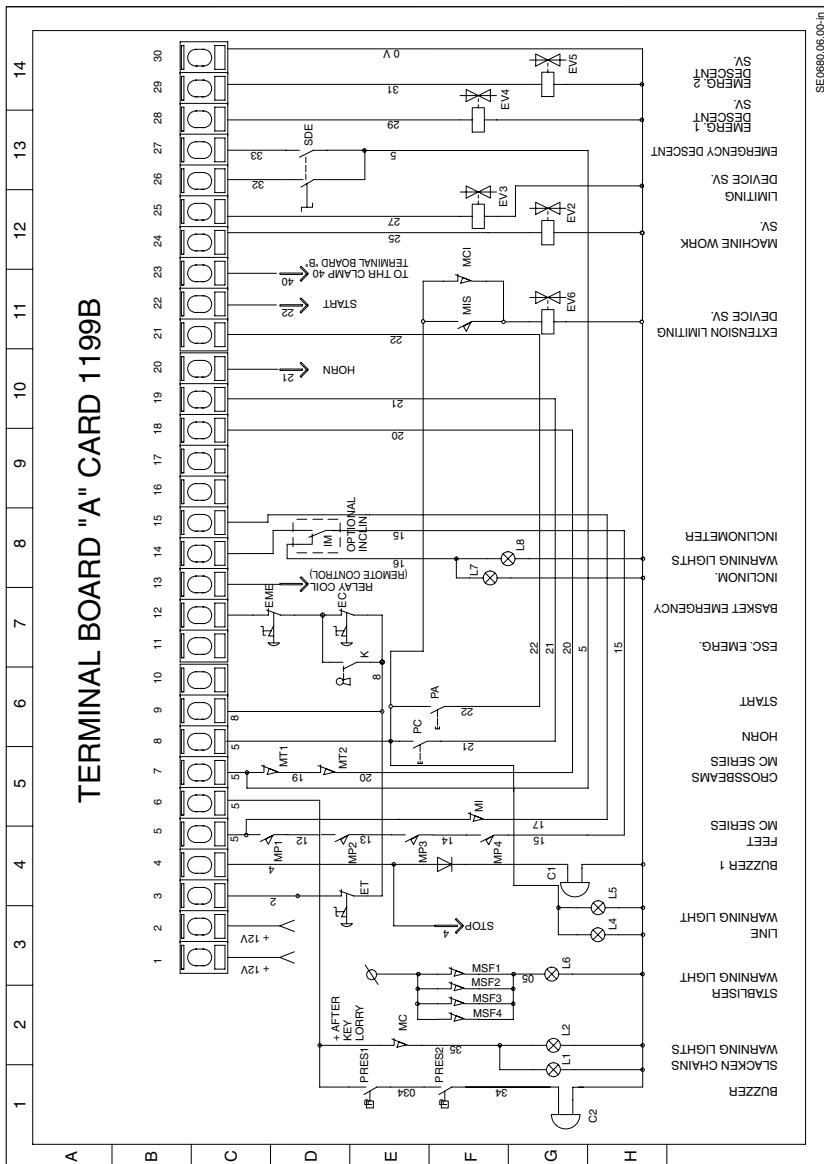
C1 = 470 MICRO F63 V
D1-D2-D3-D4-D5-D6-D7-D8-D9 = 4007
RL1 = EMERGENCY RELAY (R.EME)
RL2 = STABILISATION RELAY (R.STAB.)
RL3 = LIMITING DEVICE RELAY
RL4 = EMERGENCY DESCENT RELAY 1 (RE1)

RL5 = EMERGENCY DESCENT RELAY (R.E2)
RL6 = CROSSBEAMS RELAY (R.TRAV.)
RL7 = AUXILIARY RELAY (R.AUX)
RL8 = REMOTE CONTROL RELAY (R.R.)
RL9 = LOADING CELL RELAY (R.CEL.)

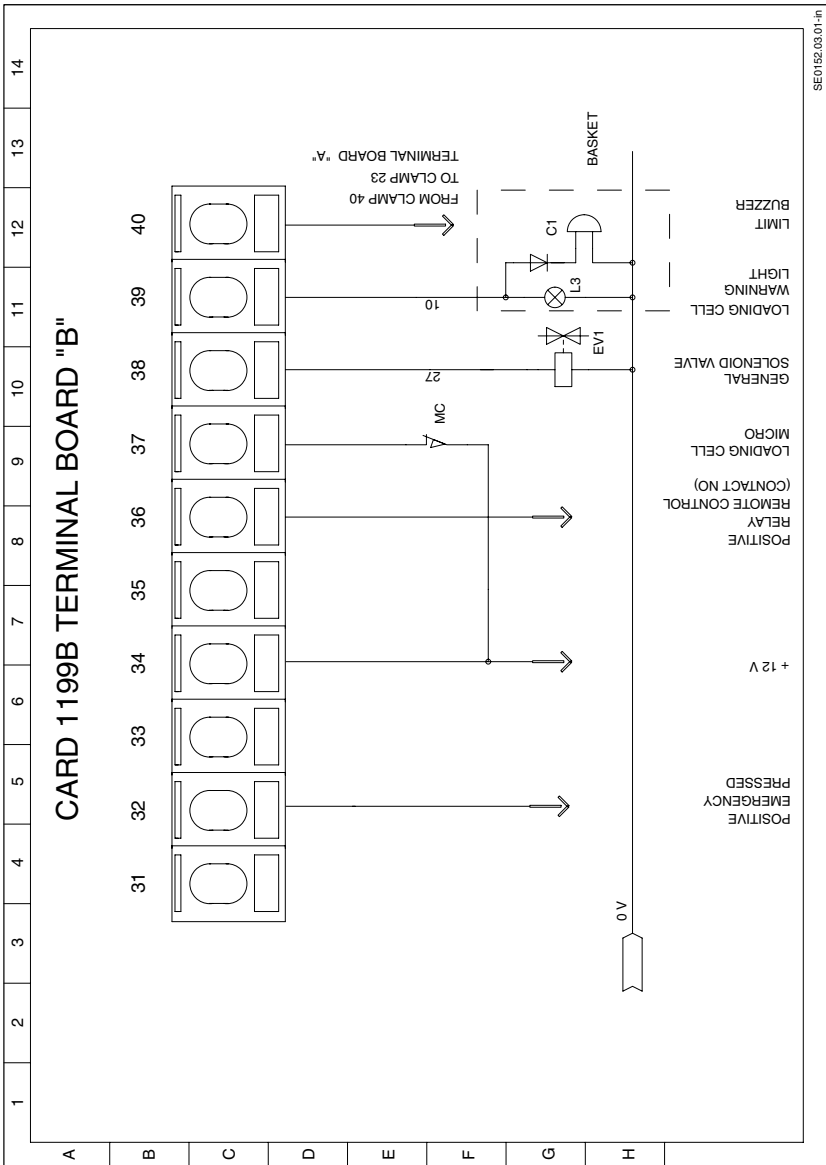
F1 = GENERAL (15 A)
F2 = + AFTER EMERGENCY (5 A) IN 2112 (10 A)
F3 = GENERAL SOLENOID VALVE (5 A)
F4 = RUNNING MACHINE SOLENOID VALVE (5 A)
F5 = LIMITING DEVICE SOLENOID VALVE (5 A)
F6 = EMERGENCY 1 DESCENT SOLENOID VALVE (5 A)
F7 = EMERGENCY 2 DESCENT SOLENOID VALVE (5 A)
F8 = REMOTE CONTROL

SE03966.03.01-4n

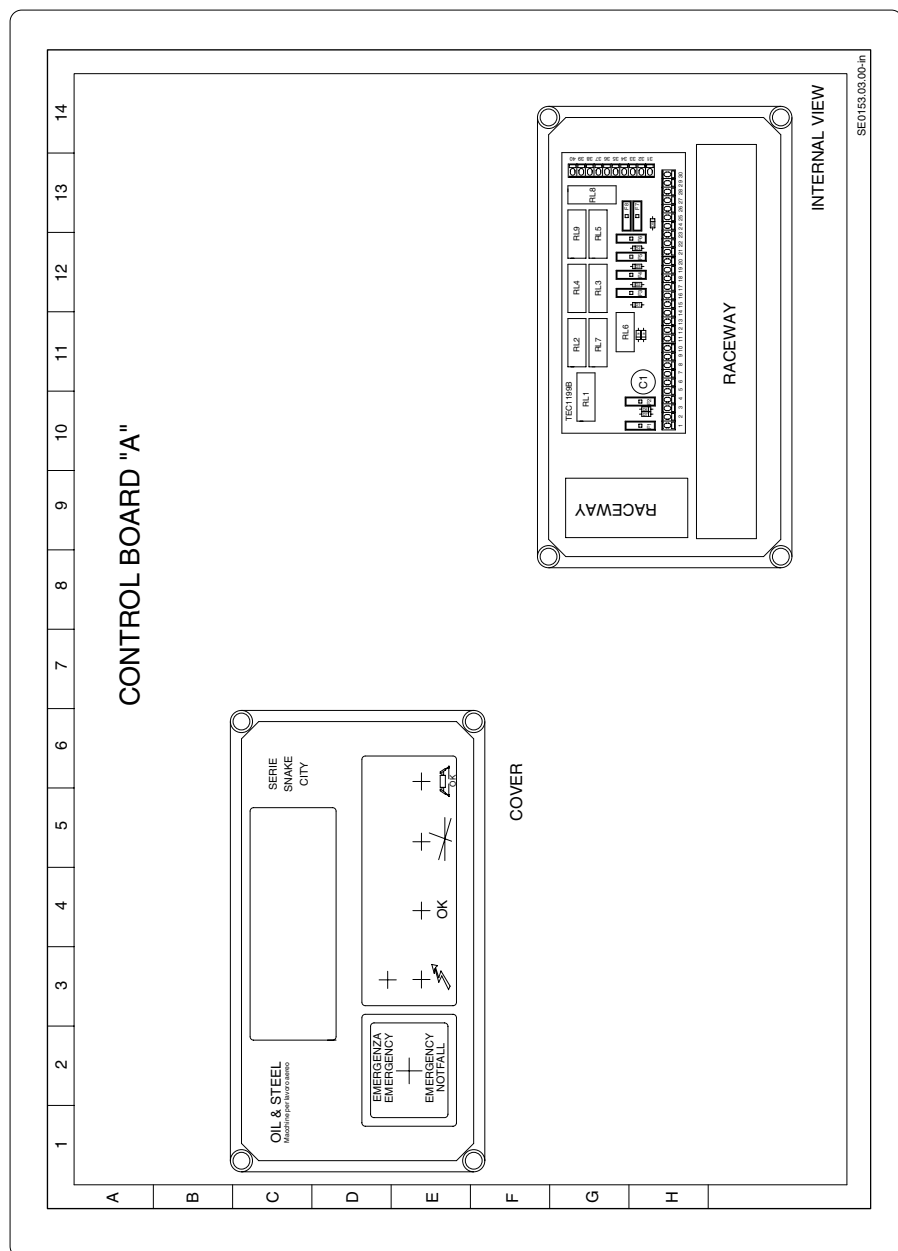
TERMINAL BOARD "A" CARD 1199B



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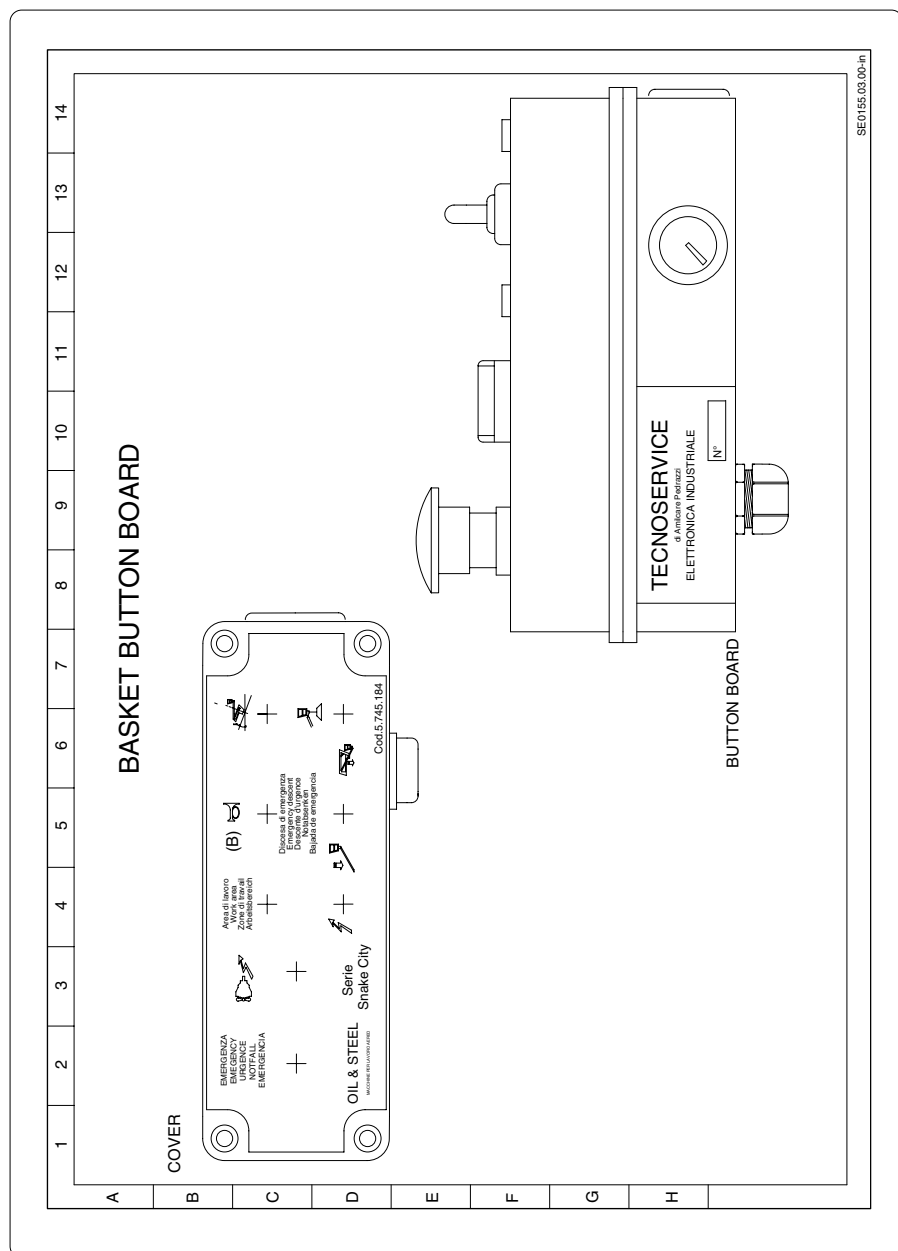


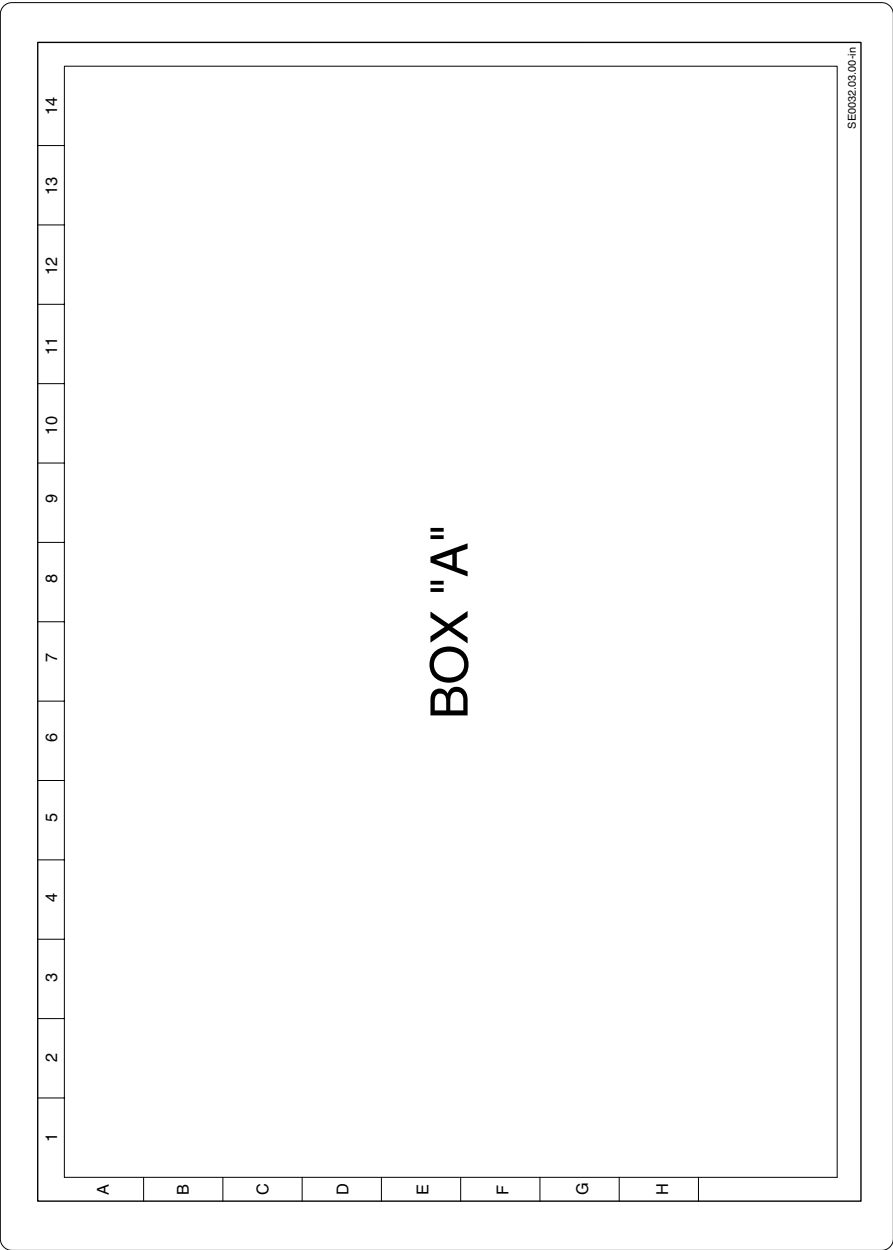


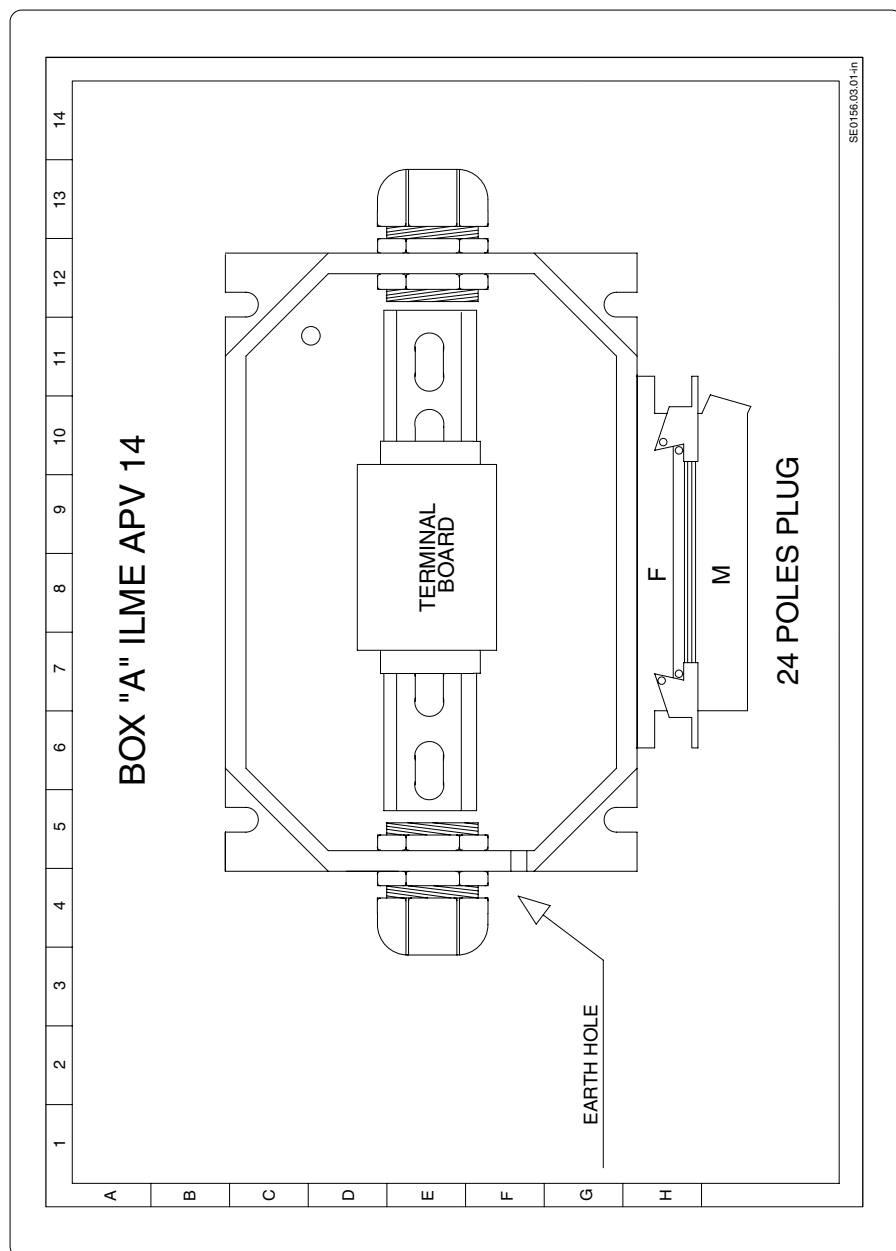
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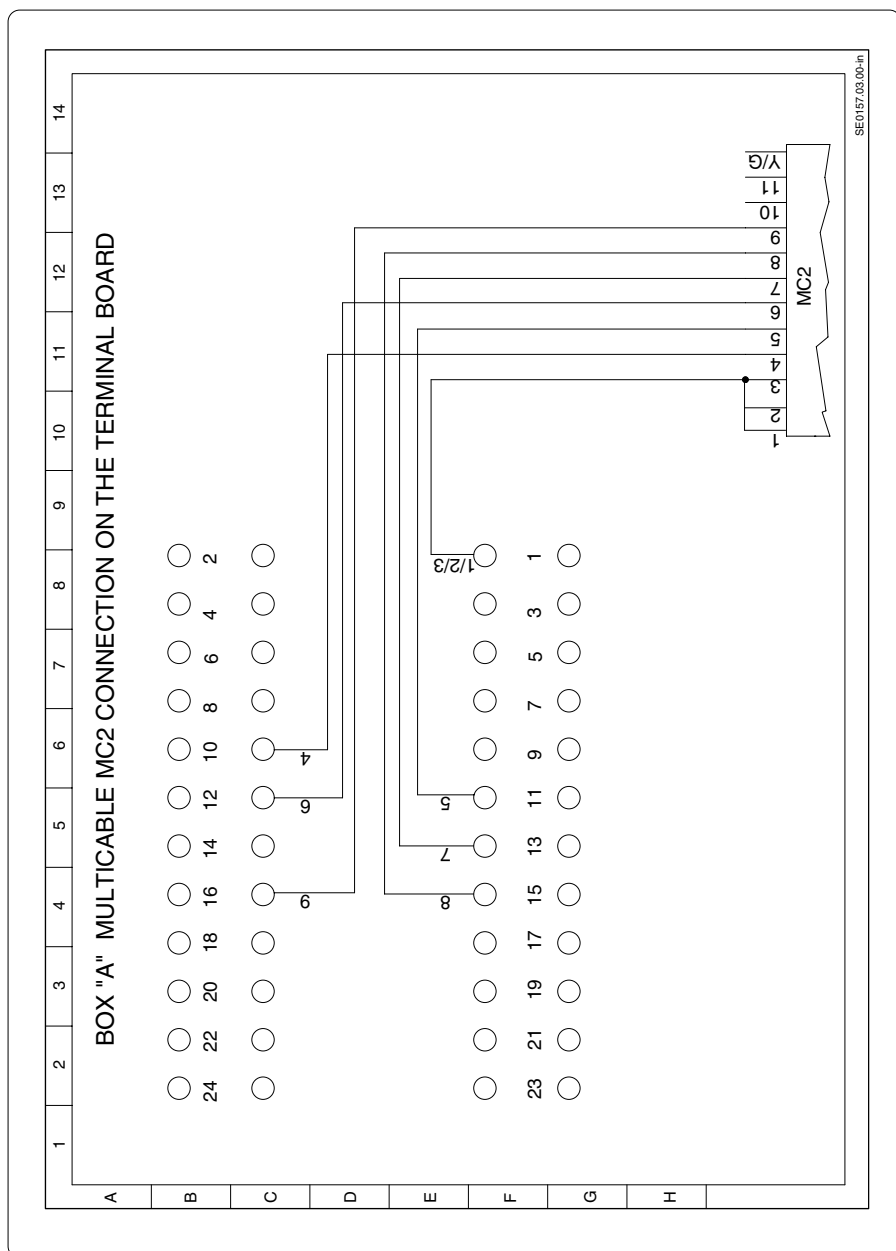
BASKET BUTTON BOARD

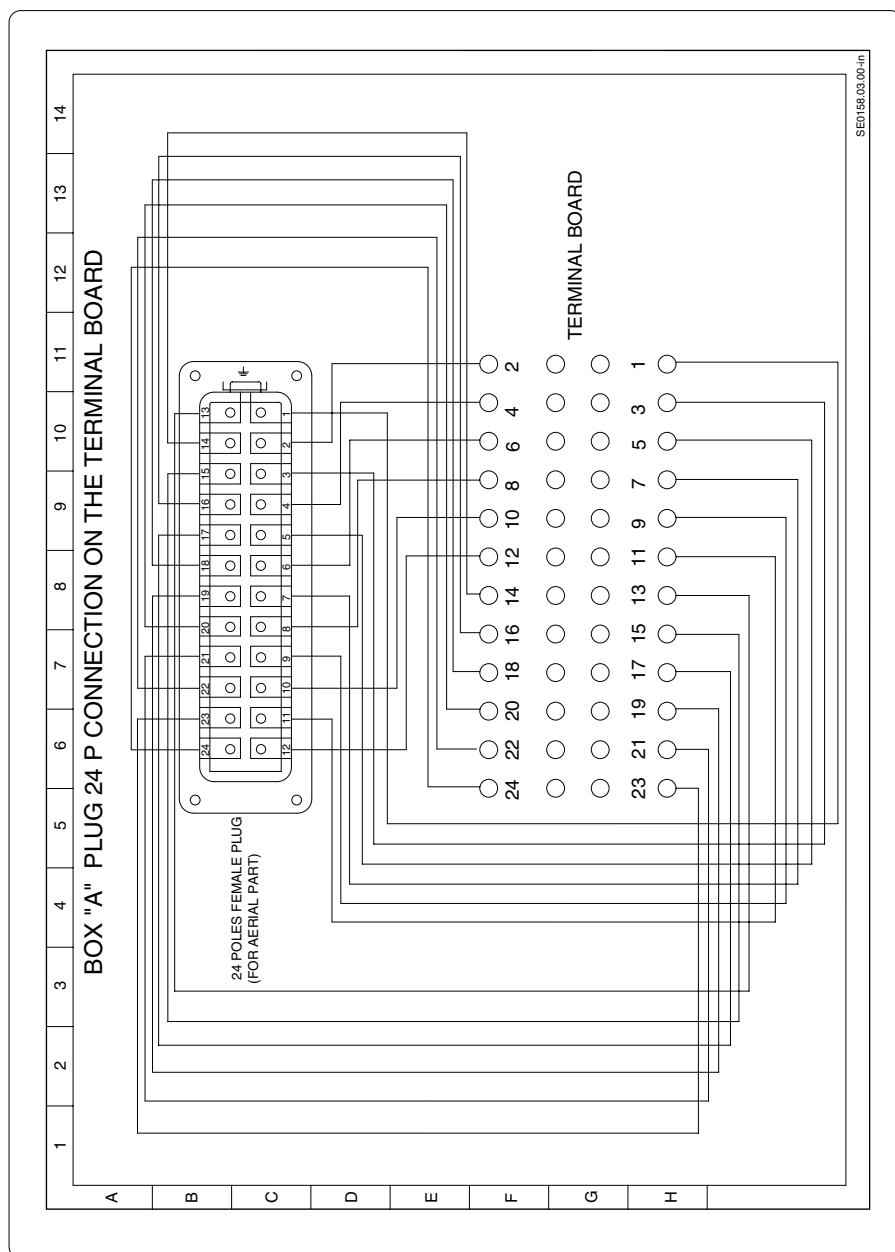
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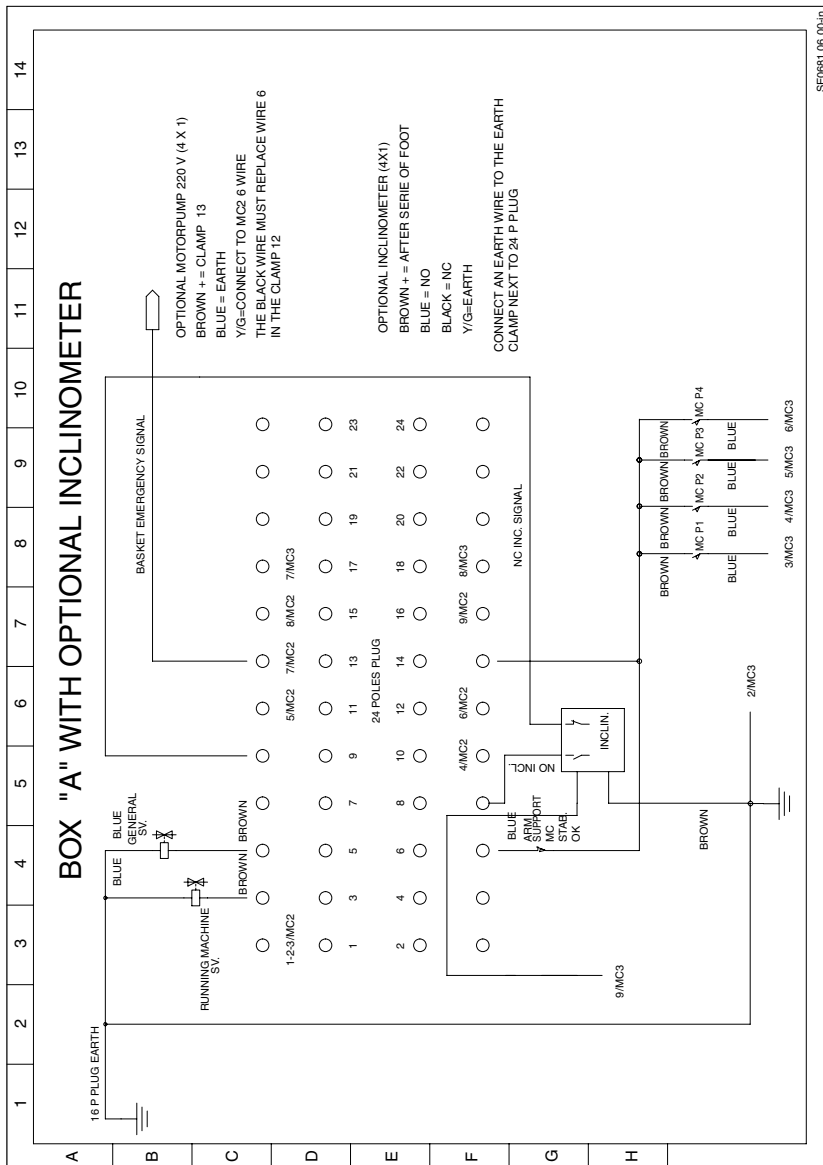




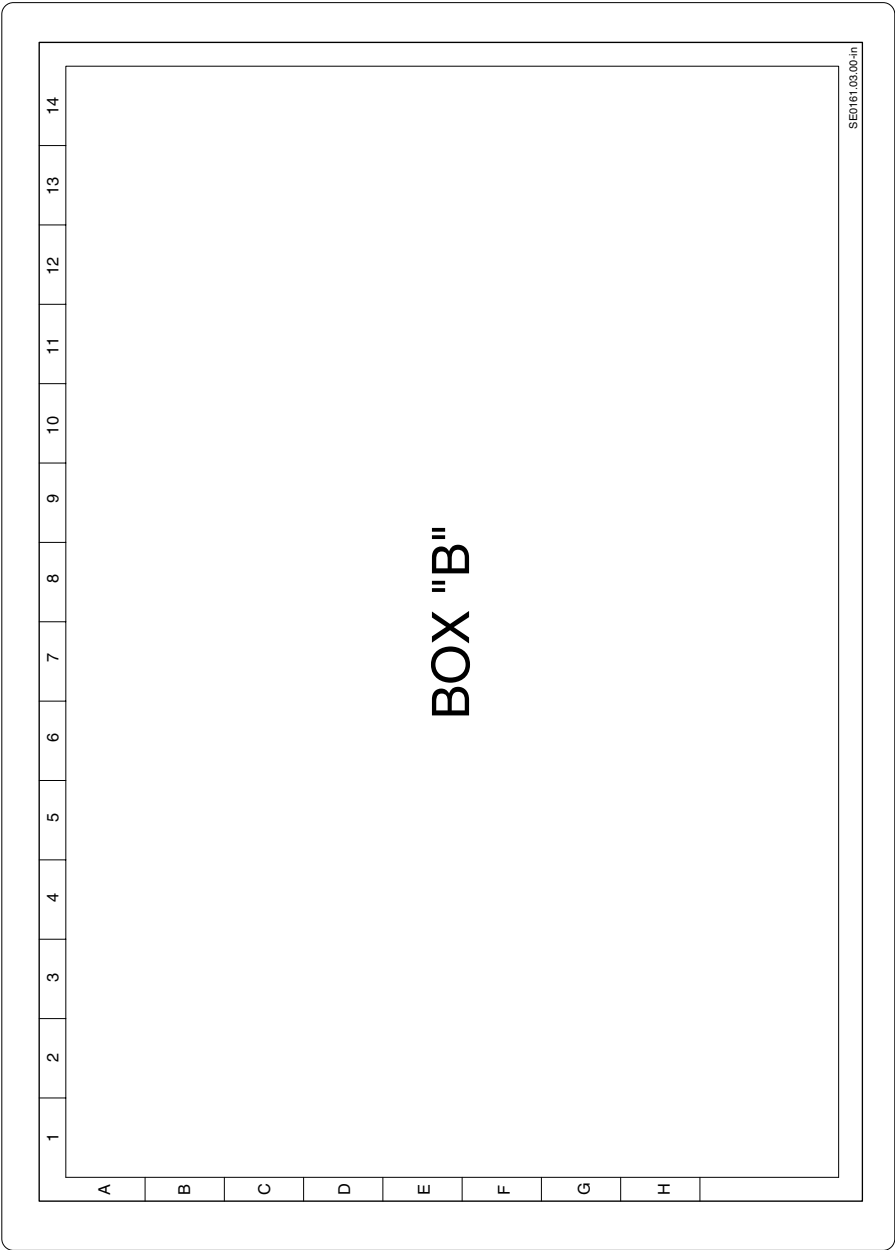


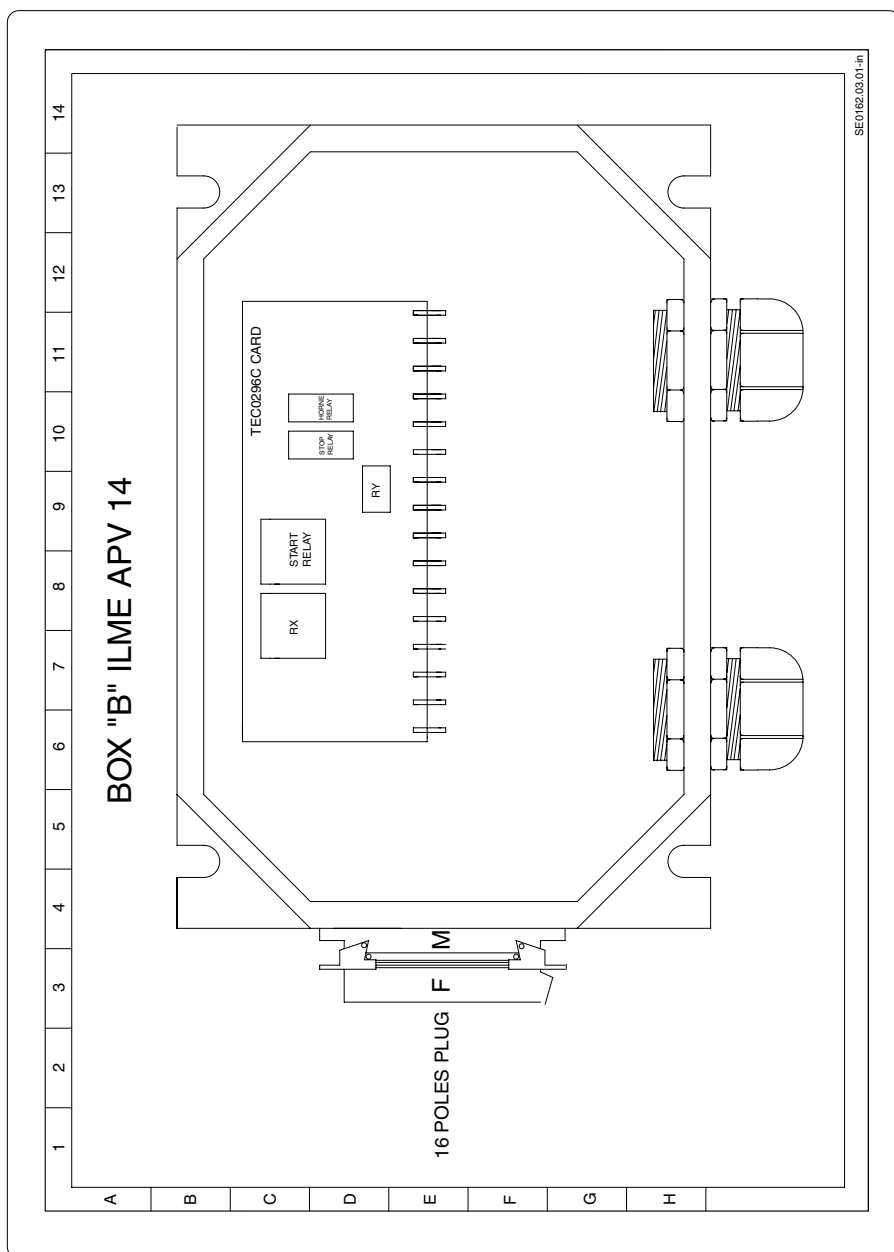


BOX "A" WITH OPTIONAL INCLINOMETER











CONNECTION BOX "B" FOR DAILY

TEC0296C CARD

STOP RELAY

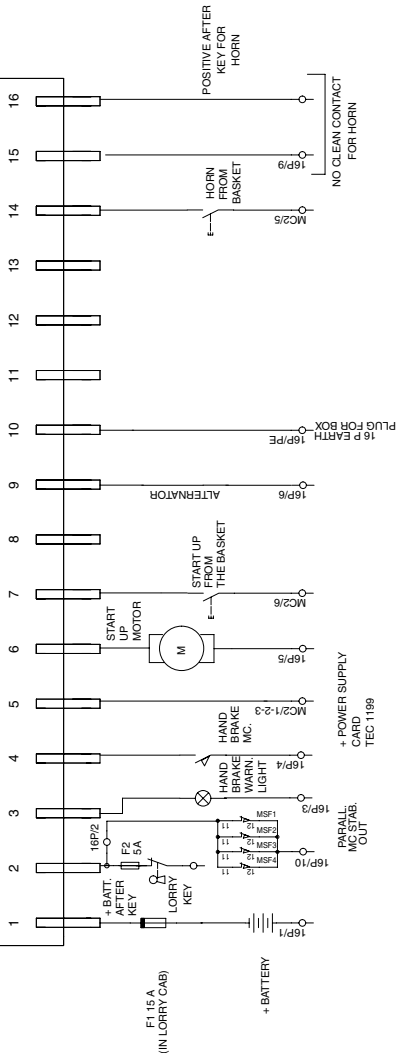
HORN RELAY

START UP RELAY

RX

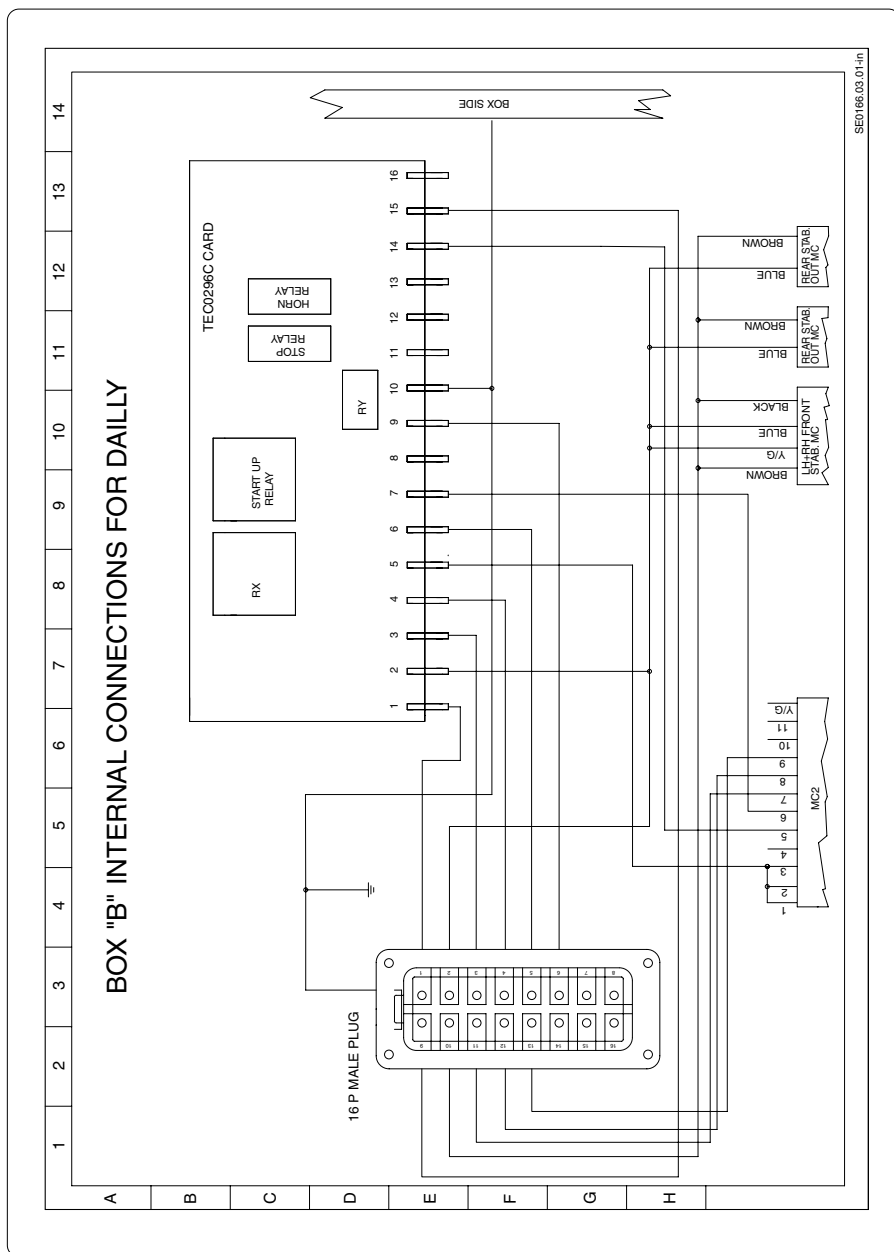
RY

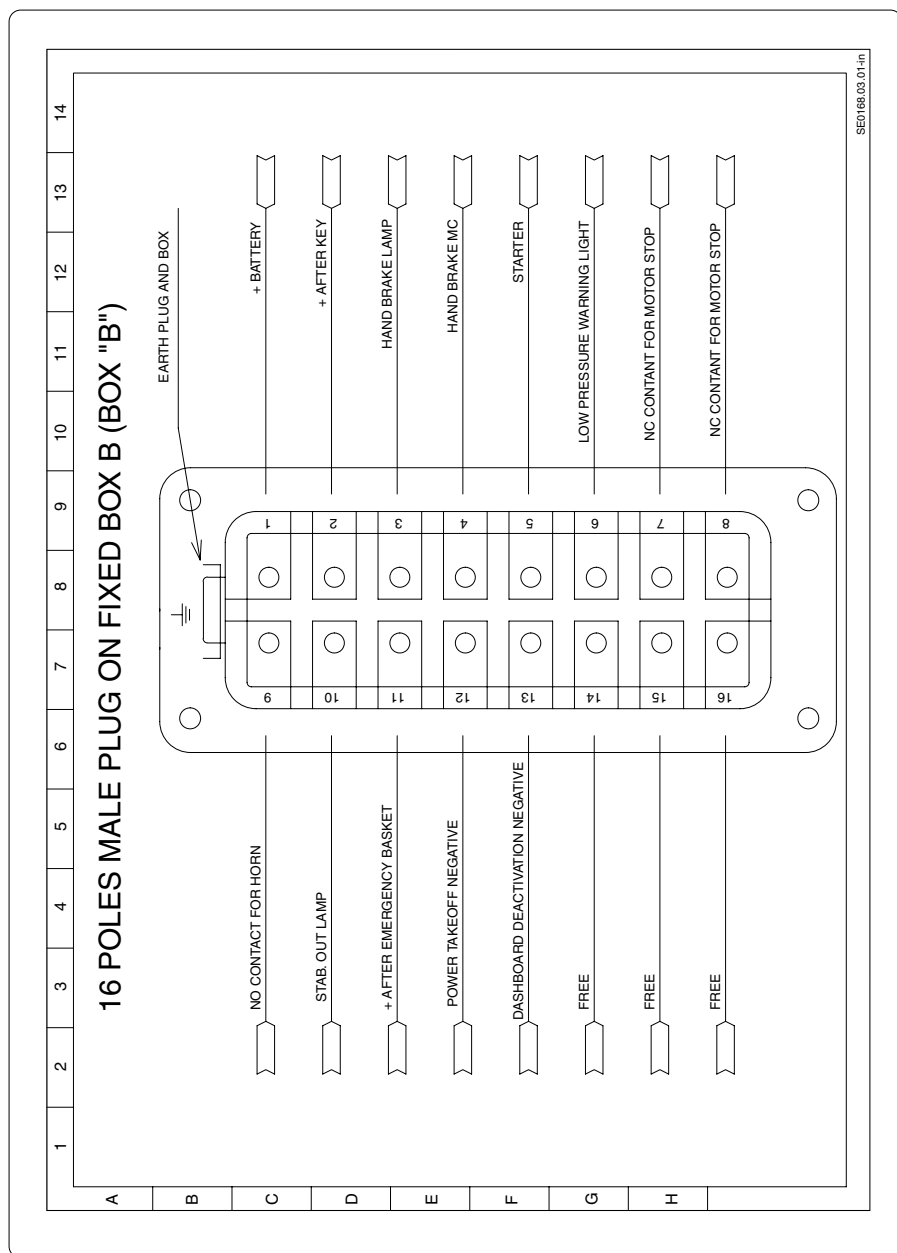
F1/F2 MUST BE EXECUTED
BY THE INSTALLER



SE0164.03 02-in

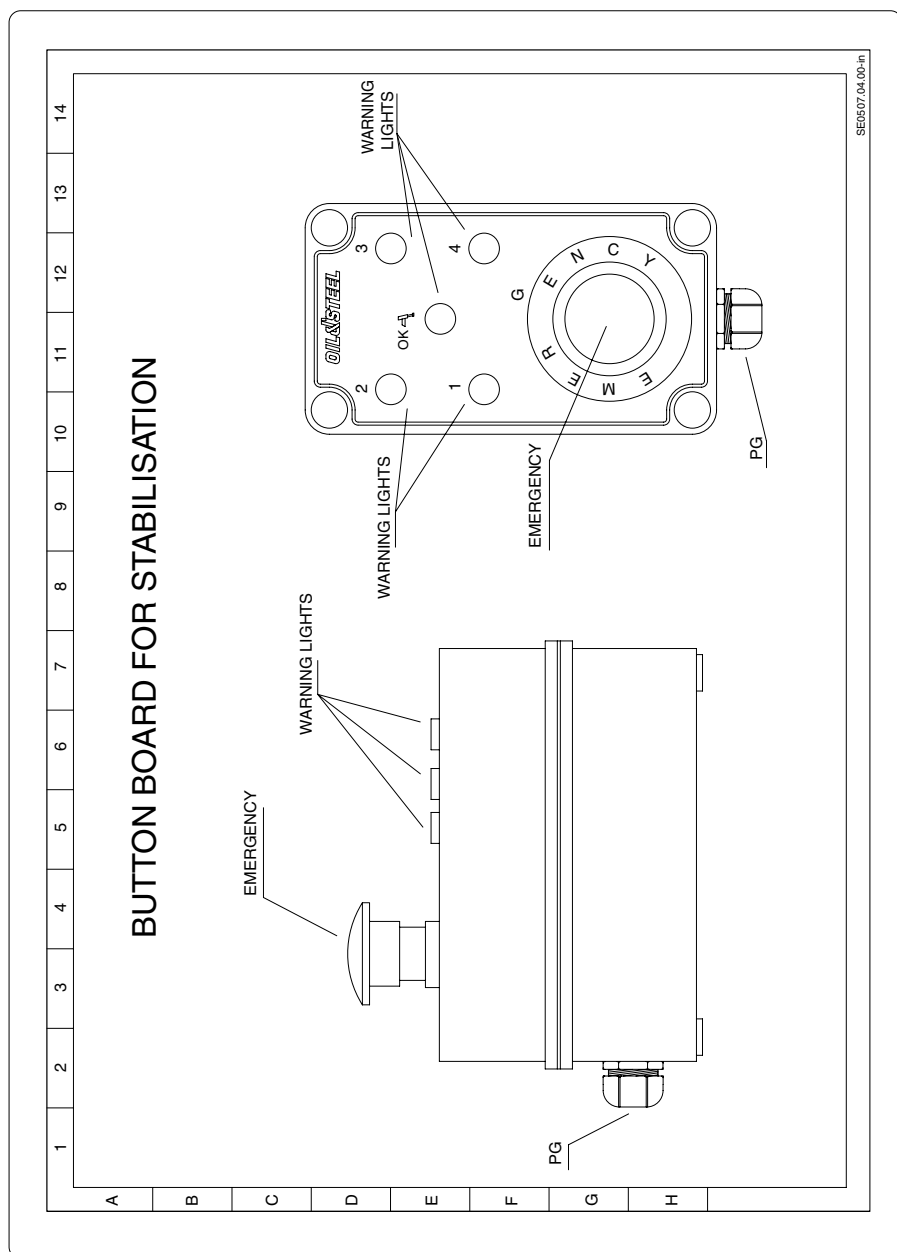






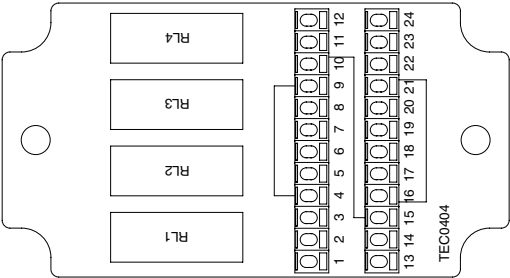
STABILISATION BUTTON BOARD

SE0506.04.00-in



1 2 3 4 5 6 7 8 9 10 11 12 13 14

MC3 MULTICABLE CONNECTION TABLE (12 X 1) ON TEC0404 CARD



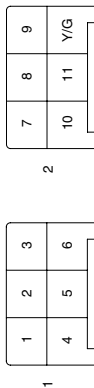
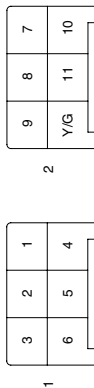
MULTIC. N	CLAMP N	DIAGRAM N	DESCRIPTION
1	3	5	+ AFTER EMERGENCY
2	2-8-14-20	0	0 EARTH
3	1	12	FRONT LH MC STABILISATOR (1)
4	7	13	FRONT RH MC STABILISATOR (2)
5	13	14	REAR LH MC STABILISATOR (3)
6	19	015	REAR RH MC STABILISATOR (4)
7	/	9	EMERGENCY
8	/	09	EMERGENCY
9	22	/	MC AXLE SERIES
10	/	15	STABILISATION OK SIGNAL
11	/	/	FREE
12	/	/	FREE

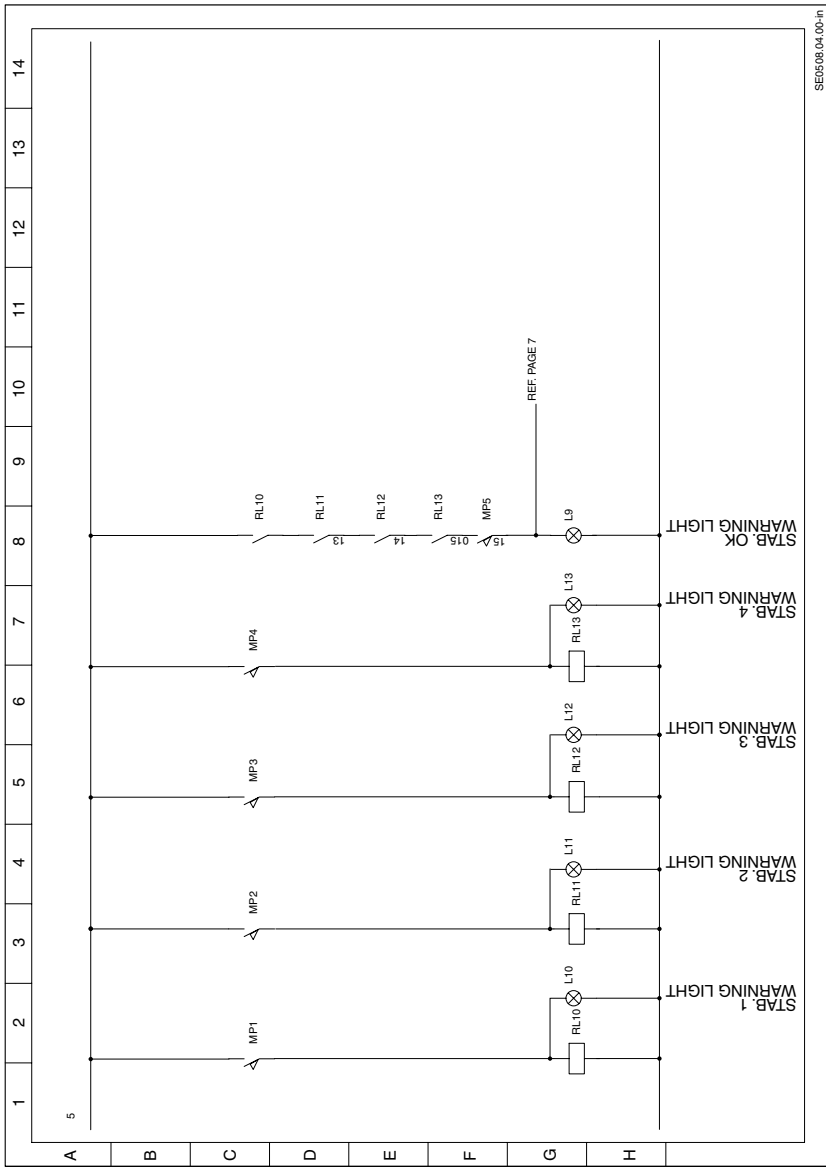
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MC3 (12 X 1) BOX "A" SIDE

MC1	DESCRIPTION	CLAMP N	DIAGRAM N
1	STABILISATION OK SIGNAL	14	15
2	EARTH	/	0
3	FRONT LH MC STABILISATOR	/	12
4	FRONT RH MC STABILISATOR	/	13
5	REAR LH MC STABILISATOR	/	14
6	REAR RH MC STABILISATOR	/	015
7	EMERGENCY	/	9
8	EMERGENCY	/	09
9	+ MICRO AXLE SERIES	/	22
10	WARNING LIGHT	/	/
11	FREE	/	/
12	FREE	/	/

DISPOSITION OF MC3 MULTICABLE ON CONNECTORS 6 P

FRONTAL VIEW, MALE CONNECTOR DASHBOARD SIDE
(PART WHERE FASTON IS NOT INSERTED)FRONTAL VIEW, FEMALE CONNECTOR BOX "A" SIDE
(PART WHERE FASTON IS NOT INSERTED)



1 2 3 4 5 6 7 8 9 10 11 12 13 14

5

A

B

C

D

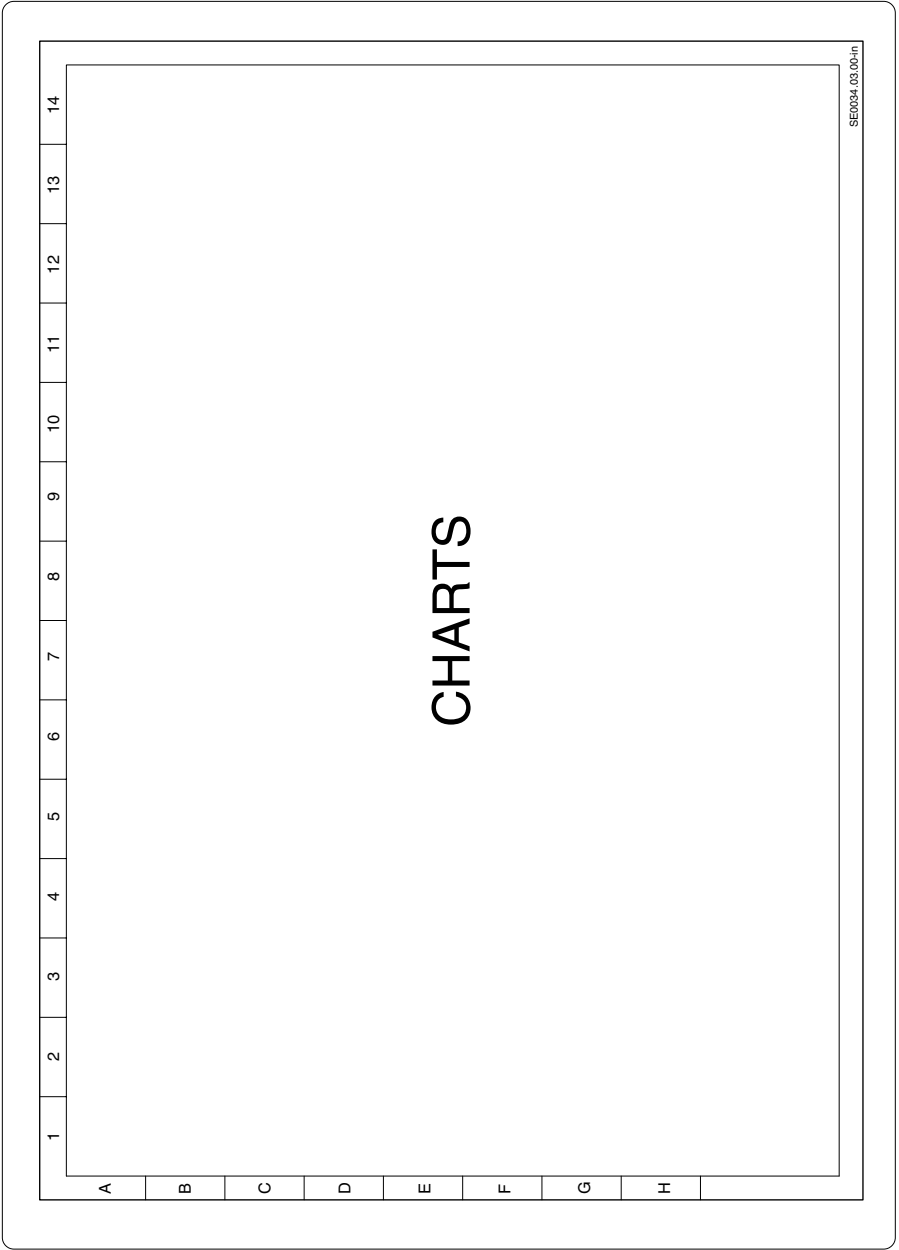
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SE0508.04.00-in



1	2	3	4	5	6	7	8	9	10	11	12	13	14
A	MC2 (12 X 1) DESCRIPTION FOR THE CONNECTION BOX "A" - "B"												
B													
C													
D													
E													
F													
G													
H													

MULTICABLE N°	DESCRIPTION
1	POSITIVE POWER SUPPLY
2	POSITIVE POWER SUPPLY
3	POSITIVE POWER SUPPLY
4	LORRY STOP
5	HORN
6	MOTOR START UP
7	+ AFTER EMERGENCY BASKET
8	POWER TAKEOFF NEGATIVE
9	DASHBOARD DISCONNECTING COIL NEGATIVE
10	FREE
11	FREE
Y/G	FREE

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14

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1

16 P FEMALE PLUG CONNECTION COMING FROM THE LORRY CAB (TO BE CONNECTED TO THE 16 P MALE PLUG OF THE BOX "B")

PER DAILY

FOR NISSAN RENAULT

N°	CABLE DESCRIPTION	COLOUR
1	+ BATTERY	RED
2	+ AFTER KEY	BLACK
3	HAND BRAKE WARNING LIGHT (OUT PUT POSITIVE)	
4	HAND BRAKE MC	GREEN
5	STARTER	YELLOW/GREEN
6	ALTERNATOR	GRAY
7	CLEAN NC CONTACT FOR SWITCHING OFF	ROSE
8		
9	CLEAN NO CONTACT FOR HORN	WHITE
10	STAB OUT WARNING LIGHT (OUT PUT POSITIVE)	VIOLET
11		
12	POWER TAKEOFF NEGATIVE	BLUE
13	DASHBOARD DISCONNECTING COIL NEGATIVE	ORANGE
14	FREE	
15	FREE	
16	FREE	
	BATTERY NEGATIVE	BLUE (2.5 mm)

PLUG PIN N	CABLE DESCRIPTION	COLOUR (SECT. mm)
1	+ BATTERY	RED (2.5 mm)
2	+ AFTER KEY	BLACK (1.5 mm)
3	HAND BRAKE WARNING LIGHT (OUT PUT POSITIVE)	BROWN (1.5 mm)
4	HAND BRAKE MC	GREEN (1.5 mm)
5	STARTER	Y/G (1.5 mm)
6		GREY (1.5 mm)
7	CLEAN NC CONTACT FOR SWITCHING OFF	PINK (1.5 mm)
8	CLEAN NC CONTACT FOR SWITCHING OFF	PINK (1.5 mm)
9	CLEAN NO CONTACT FOR HORN	WHITE (1.5 mm)
10	STAB OUT WARNING LIGHT (OUT PUT POSITIVE)	VIOLET (1.5 mm)
11	+ AFTER BASKET EMERGENCY	
12	POWER TAKEOFF NEGATIVE	BLUE (1.5 mm)
13	DASHBOARD DISCONNECTING COIL NEGATIVE	ORANGE (1.5 mm)
14	FREE	
15	FREE	
16	FREE	
	BATTERY NEGATIVE	BLUE (2.5 mm)

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14
A	CONNECTION MC1 (24x1) 24 POLE MOBILE (MALE) PLUG COMING FROM TURRET (TO BE CONNECTED TO THE 24 POLE FEMALE PLUG ON BOX "A")													
B	MC1				24 P PLUG				MC1				24 P PLUG	
C	1/2/3				CLAMP 1				13				CLAMP 11	
D	4				CLAMP 2				14				CLAMP 12	
E	5				CLAMP 3				15				CLAMP 13	
F	6				CLAMP 4				16				CLAMP 14	
G	7				CLAMP 5				17				CLAMP 15	
H	8				CLAMP 6				18				CLAMP 16	
	9				CLAMP 7				19				CLAMP 17	
	10				CLAMP 8				20				CLAMP 18	
	11				CLAMP 9				21				CLAMP 19	
	12				CLAMP 10				22				CLAMP 20	
									23				ON PLUG EARTH	
									Y/G					
SE0171.03.00-4n														

MC1 (24 X 1) CONNECTION INTO THE TURRET CONTROL BOARD

MC1	DESCRIPTION	CLAMP	DIAGRAM N
13	HORN	CLAMP 20	
14	MOTOR START UP	CLAMP 22	
15	+ AFTER EMERGENCY		
16	+ AFTER EMERGENCY FOR MC	CLAMP 5	
17	POWER TAKEOFF NEGATIVE	FROM LORRY CAB	
18	DASHBOARD DEACTIVATION NEGATIVE	FROM LORRY CAB	
19	EARTH EMERGENCY		9
20	EARTH EMERGENCY	CLAMP 12	09
21	RADIO CLEARANCE KEY MC (FOR 2112 ONLY)		
22	RADIO CLEARANCE KEY MC (FOR 2112 ONLY)		
23	EARTH	CLAMP 30	0
G/V	EARTH	CLAMP 30	0

DESCRIPTION	CLAMP	DIAGRAM N
1 POSITIVE POWER SUPPLY (F 15 A)	CLAMP 1/2	+
2 POSITIVE POWER SUPPLY (F 15 A)	CLAMP 1/2	+
3 POSITIVE POWER SUPPLY (F 15 A)	CLAMP 1/2	+
4 FEET MC SERIE	CLAMP 14/15	
5 RUNNING MACHINE SOLENOID VALVE	CLAMP 24	
6 CROSSBEAMS MC SERIE	CLAMP 18	
7 GENERAL SOLENOID VALVE	CLAMP 38	
8 OK ARM SUPPORT STABIL MC	CLAMP 15	
9 EXTENSION ARM SUPPORT MC		36
10 NO INCLINOMETER SIGNAL OPTION		
11 NC INCLINOMETER SIGNAL OPTION	CLAMP 14	
12 VEHICLE STOP	CLAMP 4	

* IN THE 2112 THE CLAMPS 13-14-15 ARE CONNECTED WITH A BRIDGE

SE 0683.06.00-in

(12 X 0,34) TURRET CONNECTION CHART

DESCRIPTION	WIRE COLOUR	TURRET CONNECTION
EMERGENCY	BLACK	CLAMP 9 CARD TEC1199B
INCLINOMETER WARNING LIGHT	BROWN	10 MC1
EMERGENCY	RED	12MC1
DASHBOARD DEACTIVATION	YELLOW	17 MC1
INTERMITTENT BUZZER	GREEN	IT MUST BE CONNECTED TO THE TURRET BUZZER POSITIVE N.34
DASHBOARD DEACTIVATION	BLUE	18 MC1
POSITIVE START / LINE WARNING LIGHT	GREY	CLAMP 8 CARD TEC1199B
EMERGENCY BUZZER ACTIVATED	WHITE	CLAMP 4 CARD TEC1199B
START	PINK	CLAMP 21 CARD TEC1199B
	RED - BLUE	
LOADING CELL WARNING LIGHT	PINK - GREY	CLAMP 39 CARD TEC1199B
NEGATIVE	BRAID	CLAMP 30 CARD TEC1199B
HORN	VIOLET	CLAMP 19 CARD TEC1199B

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

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(12 X 0,34) BASKET CONNECTION CHART

DESCRIPTION	WIRE COLOUR	DIAGRAM N°
EMERGENCY RED PUSH-BUTTON	BLACK	8
INCLINOMETER RED WARNING LIGHT	BROWN	16
EMERGENCY RED PUSH-BUTTON	RED	9
DASHBOARD DEACTIVATION KEY SELECTOR	YELLOW	
INTERMITTENT BUZZER	GREEN	34
DASHBOARD DEACTIVATION KEY SELECTOR	BLUE	
POSITIVE AFTER EMERGENCY: LINE WARNING LIGHT, START UP GREEN PUSH- BUTTON, HORN PUSH-BUTTON	GREY	5
EMERGENCY BUZZER ACTIVATED	WHITE	4
START UP GREEN PUSH-BUTTON (SIGNAL)	PINK	22
	RED - BLUE	
LOADING CELL RED WARNING LIGHT	PINK - GREY	10
NEGATIVE	BRAID	0
HORN (SIGNAL)	VIOLET	21

SE0395 03.00-in

1 2 3 4 5 6 7 8 9 10 11 12 13 14

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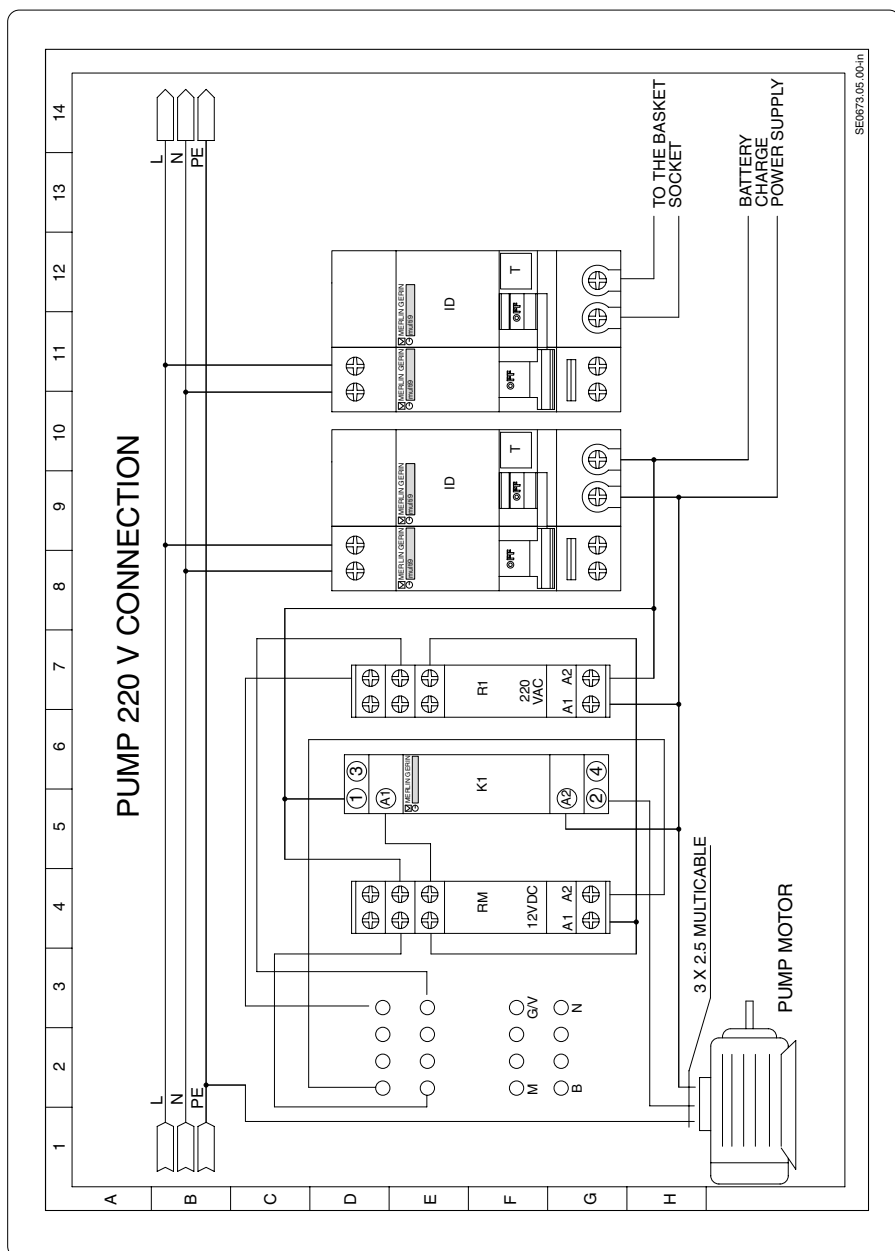
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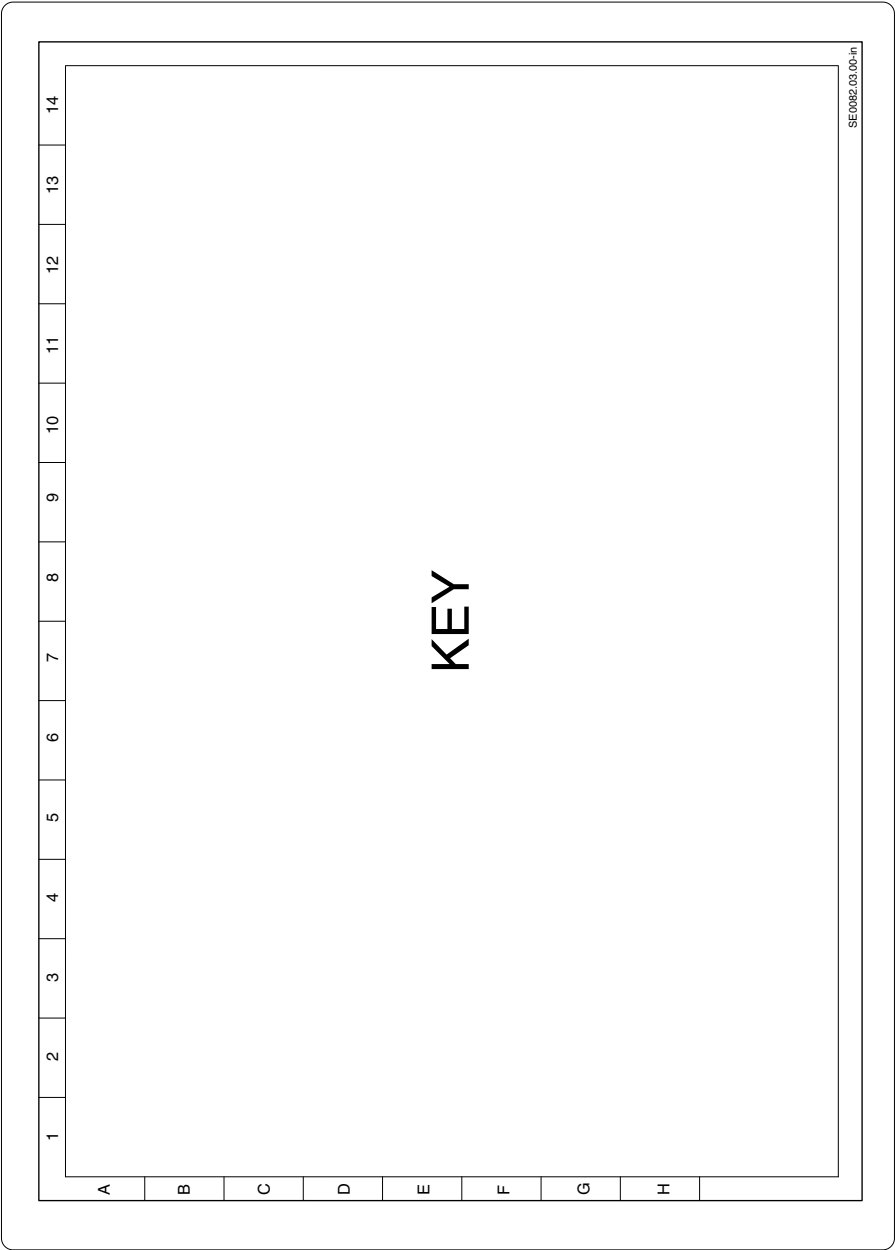
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Key Sigles

Sigle	Description
C1	ACTIVATED EMERGENCY BUZZER
C2	LOADING CELL AND PRESSURE CALL BUZZER
EC	EMERGENCY PUSHBUTTON IN THE BASKET
EME	GENERIC EMERGENCY
ET	EMERGENCY PUSHBUTTON ON TURRET CONTROL BOARD
EV1	GENERAL SOLENOID VALVE
EV2	RUNNING MACHINE SOLENOID VALVE
EV3	LIMITING DEVICE SOLENOID VALVE
EV4	EMERGENCY 1 DESCENT SOLENOID VALVE
EV5	EMERGENCY 2 DESCENT SOLENOID VALVE
EV6	ARM EXTENSION LIMITING DEVICE SOLENOID VALVE
F1	GENERAL FUSE (15 A)
F2	FUSE AFTER EMERGENCY (5 A)
F3	FUSE FOR THE GENERAL SOLENOID VALVE (EV1)
F4	FUSE FOR THE RUNNING MACHINE SOLENOID VALVE (EV2)
F5	FUSE FOR THE LIMITING DEVICE SOLENOID VALVE (EV3)
F6	FUSE FOR THE EMERGENCY DESCENT SOLENOID VALVE 1 (EV4)
F7	FUSE FOR THE EMERGENCY DESCENT SOLENOID VALVE 2 (EV5)
IN	INCLINOMETER
K	BASKET EMERGENCY EXCLUSION KEY
L1	SLACKEN CHAINS WARNING LIGHT ON THE BASKET BUTTON BOARD
L10	STABILISATION OK WARNING LIGHT
L2	SLACKEN CHAINS WARNING LIGHT ON THE TURRET CONTROL BOARD
L3	LOADING CELL WARNING LIGHT
L4	LINE PRESENCE WARNING LIGHT ON BASKET BUTTON BOARD
L5	LINE PRESENCE WARNING LIGHT ON TURRET CONTROL BOARD
L6	STABILISERS OUT WARNING LIGHT
L7	INCLINOMETER WARNING LIGHT ON THE BASKET BUTTON BOARD
L8	INCLINOMETER WARNING LIGHT ON THE TURRET CONTROL BOARD

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SF0397 03 00-in

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A	Key Sigles <table><thead><tr><th>Sigle</th><th>Description</th></tr></thead><tbody><tr><td>RL6</td><td>CROSSBEAMS RELAY</td></tr><tr><td>RL8</td><td>REMOTE CONTROL RELAY</td></tr><tr><td>RL9</td><td>LOADING CELL RELAY</td></tr><tr><td>RS</td><td>STOP RELAY</td></tr><tr><td>RX</td><td>LORRY KEY RELAY ON CARRIAGE CARD</td></tr><tr><td>RY</td><td>START UP CLEARANCE RELAY ON CARRIAGE CARD</td></tr><tr><td>SDE</td><td>1-2 EMERGENCY DESCENT SELECTOR</td></tr><tr><td>E</td><td></td></tr></tbody></table>														Sigle	Description	RL6	CROSSBEAMS RELAY	RL8	REMOTE CONTROL RELAY	RL9	LOADING CELL RELAY	RS	STOP RELAY	RX	LORRY KEY RELAY ON CARRIAGE CARD	RY	START UP CLEARANCE RELAY ON CARRIAGE CARD	SDE	1-2 EMERGENCY DESCENT SELECTOR	E	
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BILL OF MATERIALS

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

BILL OF MATERIALS

TURRET CONTROLS BOARD

NR.	DESCRIPTION	BRAND	TYPE
01	30X18.5 GREY COVER	VINCKIER	APO 31
01	30X18.5 CLOSED BASE	VINCKIER	APO 31
01	22.8X13.9 BOTTOM PLATE	VINCKIER	APO 31
01	ELECTRONIC CARD		TEC1199
05	12 VDC RELAY	FINDER	40.31
01	MUSHROOM RED PUSH-BUTTON	TELEMECANIQUE	ZB4-BS54
01	NC CONTACT	TELEMECANIQUE	ZB4-BZ102
02	GREEN WARNING LIGHT	LYVIA	12V D.10
02	0-1 KEY SELECTOR	TELEMECANIQUE	ZB4-BG4
04	NO CONTACT	TELEMECANIQUE	ZB4-BZ101
01	RED WARNING LIGHT	LYVIA	12V D.10
01	RED PUSH-BUTTON	TELEMECANIQUE	ZB4-BP4
01	GREEN PUSH-BUTTON	TELEMECANIQUE	ZB4-BP3

OPTIONAL ON TURRET CONTROLS BOARDS

01	NO CONTACT	TELEMECANIQUE	ZB4-BZ101
01	GREEN PUSH-BUTTON	TELEMECANIQUE	ZB4-BP3
02	RED LIGHT	LYVIA	12V D.10

BOX FOR LORRY CHECK

NR.	DESCRIPTION	BRAND	TYPE
01	BOX	RETEX GIBOX	RG3
01	ELECTRONIC CARD		TEC0286/B
02	12 VDC RELAY	FINDER	40.52
02	12 VDC RELAY	COPAT	210007
01	15 A FUSE	COPAT	2855
01	FUSE HOLDER	COPAT	9525

BASKET CONTROLS BUTTON BOARD

NR.	DESCRIPTION	BRAND	TYPE
01	230X80X65 BOX	FIBOX	7211045
01	LEVER SWITCH	MATSUSHITA	T115F-A
01	CAP FOR PROTECTION LEV. SWITCH	MATSUSHITA	WD1911
01	GREEN WARNING LIGHT	LYVIA	12V D.10
01	GREEN PUSH-BUTTON	TELEMECANIQUE	ZB4-BP3
01	MUSHROOM RED PUSH-BUTTON	TELEMECANIQUE	ZB4-BS54
01	NC CONTACT	TELEMECANIQUE	ZB4-BZ102
01	NO CONTACT	TELEMECANIQUE	ZB4-BZ101
02	1A3P 1A2P BUZZER	HIT POINT	PL27N35EP

SE0178 03.00-in



**MACCHINE PER
LAVORO AEREO**

OIL & STEEL SPA

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Fax +39 059.93.68.00
<http://www.oilsteel.it>
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