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MDA COMPACTION

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Phone. (819) 362-2424
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Company / customer

Drawing number EP_SBK-010-240

Manufacturer (company) MDA COMPACTION

Project name BULLPAK BALER
WITH SECURITY PACK

Contened of document ELECTRICAL WIRING

Responsible for project

Created on 2008.07.10

Edit date 2026.09.10

Number of pages 9

MOTOR 10HP=MODEL SERIE P
MOTOR 5HP SERIE M
MOTOR 2HP / 3HP=MODEL SERIE B
POWER UNIT

SUPPLY
240 VAC

L1
L2
L3

TEW 12
BLACK
L1

TEW 12
BLACK
L2

TEW 12
BLACK
L3

MOTOR
CONTACTOR
SC1
L1 T1
L2 T2
L3 T3
(430)

OVERLOAD
OL1
1 2
3 4
5 6
(430)
(331)

W1
4x12 AWG

W1
4x12 AWG

M1
T1
T2
T3
M
3~
GND

W1
4x12 AWG

TEW 12
BLACK
1

TEW 12
BLACK
3

F1-F2
CHCC2
LP-CC-2
2
4

H1
H2

XFO
240VAC / 120VAC 150VA

TEW 18-16
RED
1

X1
X2

GND

TEW 18-16
WHITE
N

1 F3
CHCC1
FUSE 1.5 AMPS
LP-CC-1.5
2

TEW 18-16
RED
2

TBCP-120
2

TEW 18-16
RED
2

EMERGENCY STOP
AU1
1 2
(316)
(314)

TEW 18-16
RED
4

TBCP-120
4

TEW 18-16
RED
4

4
(426)

PS1
POWER SUPPLY 24 VDC
INPUT 120 VAC
L
N
GND
V+
V-
V-
OUTPUT 24 VDC

TEW 18-16
RED
2

TEW 18-16
WHITE
N

TBCP-120
2

(303) / 24V

0V / (304)

TBCP-120
N

TEW 18-16
RED
2

2
(401)

N
(402)

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REV #	PAGE	DESCRIPTION OF THE REVIEW	BY	DATE

DRAWING BY BRUNO LAPIERRE	DATE 2025.07.16	TITLE ELECTRICAL WIRING	
CHECK BY	DATE	PROJECT EP_SBK-010-240	
APPROVED BY	DATE	REVIEW	PAGE 2 DI 9

INPUT
TM221CE16R

TEW 18-16 BLUE 24V → 24V / (233)

TBCP-24 0V → (415) / 0V

TEW 18-16 BLUE 0V → 0V / (233)

TEW 18-16 BLUE 0V → COM:

PRESSURE SWITCH ANALOG

TBCP-24 24V → W2 white 4x22 AWG → 1

TBCP-24 AN+ → W2 4x22 AWG → 2

TBCP-24 AN- → W2 4x22 AWG blue → 3

0 - 10 V

IFM

BLACK → AI0: analog

RED → AI0:

TEW 18-16 BLUE I0 → (538) / I0 → I0:

TEW 18-16 BLUE 24V → EMERGENCY STOP AU1 3 4 (224) (316) → TEW 18-16 BLUE I1 → I1:

EMERGENCY STOP AU1 1 2 → 24V-5 / (504) (224) (314)

TEW 18-16 BLUE 24V → ACTION PB1 3 4 (411) → TEW 18-16 BLUE I2-5 → TEW 18-16 BLUE I2 → I2:

LOADING DOOR CODED MAGNET

(519) / I3 → TBCP-24 I3 → TEW 18-16 BLUE I3 → I3:

TBCP-24 24V → W2 6x24 AWG RED → DOOR LOCK BE1 → W2 6x24 AWG BLUE

EJECT DOOR CODED MAGNET

(531) / I4 → TBCP-24 I4 → TEW 18-16 BLUE I4 → I4:

TEW 18-16 BLUE 24V → OVERLOAD OL1 97 98 (204) → TEW 18-16 BLUE I5 → I5:

I6:

WARNING ONLY INSTALL MODE

TBCP-24I 24V

TBCP-24I I7 → INSTALL MODE INSERT JUMP CYLINDER RETRACTED → TEW 18-16 BLUE I7 → I7:

TBCP-24I I8 → INSTALL MODE INSERT JUMP CYLINDER EXTENDED → TEW 18-16 BLUE I8 → I8:

24V (409)

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REV #	PAGE	DESCRIPTION OF THE REVIEW	BY	DATE

DRAWING BY BRUNO LAPIERRE	DATE 2025.07.16	TITLE ELECTRICAL WIRING INPUT	
CHECK BY	DATE	PROJECT EP_SBK-010-240	
APPROVED BY	DATE	REVIEW	PAGE 3 DI 9

OUTPUT
TM221CE16R

L:
TEW 18-16
RED
2
2
(239)

N:
TEW 18-16
WHITE
N
N
(239)
TBCP-120
N

GNR:
TEW 14-41
GREEN
GND

COM0:
TEW 18-16
BLUE
24V
24V / (339)

Q0:
TEW 18-16
BLUE
Q0
LIGHT BUTTON
PB1
x1
x2
ORANGE
(318)
TEW 18-16
BLUE
0V

(538)
24V
W2
6x24 AWG
BROWN
TBCP-24
24V
DOOR LOCK
BE
A1
A2
B1
W2
6x24 AWG
BLACK
TBCP-24
0V
0V / (304)
0V
(513)

Q1:
TEW 18-16
BLUE
Q1
TBCP-24
Q1
W2
6x24 AWG
ORANGE

Q2:

Q3:
TEW 18-16
BLUE
Q3
SYSTEM READY
LT2
x1
x2
GREEN
TEW 18-16
BLUE
0V

COM1:
4
(228)
TEW 18-16
RED
4
4

Q4:
TEW 18-16
RED
Q4
Q4 / (532)
OVERLAOD
OL1
96
95
(204)
TEW 18-16
RED
3
(532) / Q4-1
CONTACTOR MOTOR
SC1
A1
A2
21
22 (516)
L1
T1 (204)
L2
T2 (205)
L3
T3 (206)
TEW 18-16
WHITE
N

Q5:
2 HAND PUSH BUTTON
TEW 18-16
RED
Q5
BP2
1
2
(502)
Q5-1 / (534)
W6
3x18 AWG
BLACK
TBCP-120
Q5-2
(534) / Q5-2
VALVE EXTENDED CYLINDER
SVA
x1
x2
W6
3x18 AWG
WHITE
TBCP-120
N

Q6:
TEW 18-16
RED
Q6
Q6 / (536)
W7
3x18 AWG
BLACK
TBCP-120
Q6-1
(536) / Q6-1
VALVE RETRACTED CYLINDER
SVB
x1
x2
W7
3x18 AWG
WHITE
N

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REV #	PAGE	DESCRIPTION OF THE REVIEW	BY	DATE

DRAWING BY BRUNO LAPIERRE	DATE 2025.07.16	TITLE ELECTRICAL WIRING OUTPUT	
CHECK BY	DATE	PROJECT EP_SBK-010-240	
APPROVED BY	DATE	REVIEW	PAGE 4 DI 9

OPTION BULLPEN
BULLPEN CODED MAGNET

2 HAND PUSH BUTTON

BLACK — WHITE — TBCP-AU 22-5 — BP2 3 4 (434)

YELLOW — GREEN — TBCP-AU 24-5 — BP2 3 4

RED → 24V /

BLUE → 0V / (507) — TBCP-AU 24

TBCP-AU 23

24V-5 (316) — TEW 18-16 BLUE 24V-5 — CS1 A1

0V (506) — TEW 18-16 BLUE 0V — A2

TEW 18-16 BLUE 22 — S11

TEW 18-16 BLUE 23 — S12

TEW 18-16 BLUE 0V — S21

TEW 18-16 BLUE 0V — S22

TEW 18-16 BLUE 24 — S52

LOADING DOOR CODED MAGNET

Allen Bradley Guard master

PINK — TBCP-AU 28 — 1 2

BLUE — TBCP-24 0V

GREY — TBCP-AU 29

0V (416)

RED

YELLOW

BROWN

WHITE → I3 / (322)

1 2

TEW 18-16 BLUE 26 — 21 SC1 (430) 22 — TEW 18-16 BLUE 27 — ACTION BP1 3 4 — S34

EJECT DOOR CODED MAGNET

TBCP-AU 31

TBCP-AU 30

Allen Bradley Guard master

PINK

BLUE

GREY

RED — TBCP-24 24V

YELLOW

BROWN

WHITE → I4 / (327)

TEW 18-16 RED Q4 — Q4 / (430) — 13 14 — TEW 18-16 RED Q4-1 — Q4-1 / (430)

TEW 18-16 RED Q5-1 — Q5-1 / (434) — 23 24 — TEW 18-16 RED Q5-2 — Q5-2 / (435)

TEW 18-16 RED Q6 — Q6 / (438) — 33 34 — TEW 18-16 RED Q6-1 — Q6-1 / (439)

TBCP-24 24V — (413) / 24V — TEW 18-16 BLUE 24V — 41 42 — I0 / (310)

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REV #	PAGE	DESCRIPTION OF THE REVIEW	BY	DATE

DRAWING BY BRUNO LAPIERRE	DATE 2025.07.16	TITLE ELECTRIC WIRING SECURITY SYST	
CHECK BY	DATE	PROJECT EP_SBK-010-240	
APPROVED BY	DATE	REVIEW	PAGE 5 DI 9

Terminal line-up diagram

part number				
Mounting rail		partition	Strip label	
terminal				
part number	Type number	partition	terminal label	
EBOR-0001				
EBOR-0001				
EBOR-0001				
EBOR-0001				
EBOR-0001				
EBOR-0001				
EBOR-0001				
EBOR-0001				
EBOR-0001				
EBOR-0001				
EBOR-0001				
EBOR-0001				
EBOR-0001				

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??? ???	???	???	???	???	??? BRUNO LAPIERRE	??? 2025.07.16	??? Plan des bornes associables TBCF-2
					???	???	??? EP_SBK-010-240
					???	???	??? ??? 6 DI 9

Terminal line-up diagram

		part number		
Mounting rail		partition	Strip label	
		terminal		
part number	Type number	partition	terminal label	
EBOR-0001				
EBOR-0001				
EBOR-0001				
EBOR-0001				
EBOR-0001				
EBOR-0001				
EBOR-0001				
EBOR-0001				

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??? ???	???	???	???	???						
					???	BRUNO LAPIERRE	???	2025.07.16	???	Plan des bornes associables TBCF-1
					???		???		???	EP_SBK-010-240
					???		???		???	??? 7 DI 9

Terminal line-up diagram

part number				
Mounting rail		partition	Strip label	
terminal				
part number	Type number	partition	terminal label	
EBOR-0001				
EBOR-0001				
EBOR-0001				
EBOR-0001				
EBOR-0001				
EBOR-0001				
EBOR-0001				
EBOR-0001				

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??? ???	???	???	???	???

???	BRUNO LAPIERRE	???	2025.07.16	???	Plan des bornes associables TBCF-A
???		???		???	EP_SBK-010-240
???		???		???	??? 8 DI 9

Terminal line-up diagram

		part number		
Mounting rail		partition	Strip label	
		terminal		
part number	Type number	partition	terminal label	
EBOR-0001				
EBOR-0001				
EBOR-0001				

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??? ???	???	???	???	???

???	BRUNO LAPIERRE	???	2025.07.16	???	Plan des bornes associables TBCF-2
???		???		???	EP_SBK-010-240
???		???		???	??? 9 DI 9