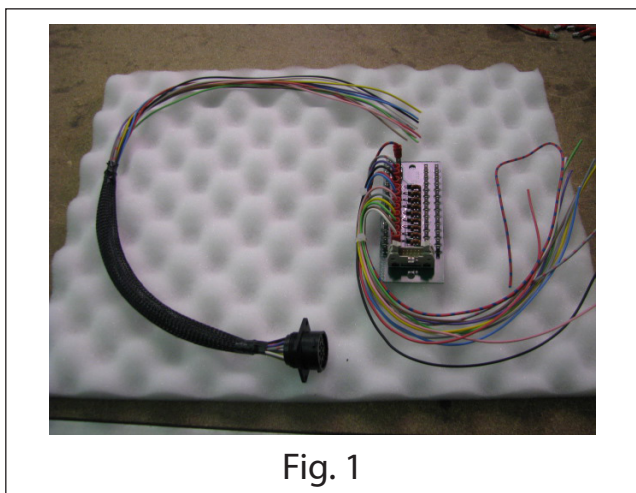


**AUTOMATIC GPS SEGMENT CUTOFF PREARRANGEMENT KIT INSTALLATION  
(for DP Control/DP Tronic housings)**

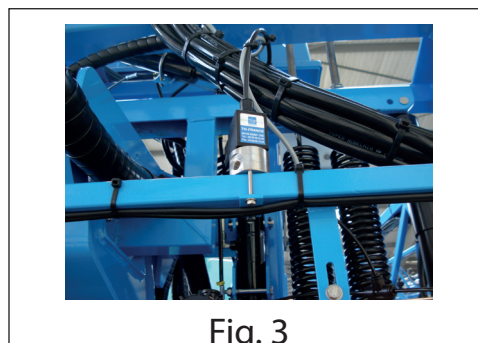
**1. What's in Kit 292483**



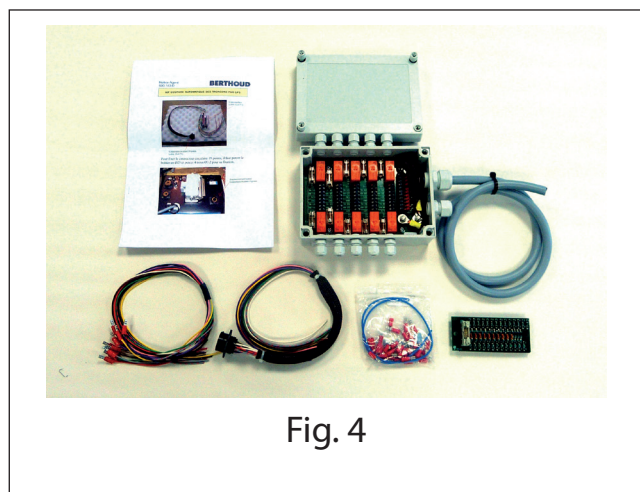
**Parts to be installed into the control box:**

- 1 interface card + 1 electrical bundle
- 1 bundle with 19-contact plug
- 1 bag with various lugs

**Reminder:** kit 292483 is compatible with devices equipped with modular motorized valves (Fig. 2) or with pneumatic solenoid valves (Fig. 3).



**2. What's in Kit 297352**



**Parts to be installed into the control box:**

Kit 292483:

- 1 interface card
- 1 electrical bundle without plug
- 1 bundle with 19-contact plug
- 1 bag with various lugs

**Parts to be installed by the segments' valves on the device:**

- 1 unit with polarity reversal relays

Reminder: kit 297352 is intended for devices equipped with old models of motorized valves (Fig. 5) or with electric check valves (Fig. 6).



Fig. 5

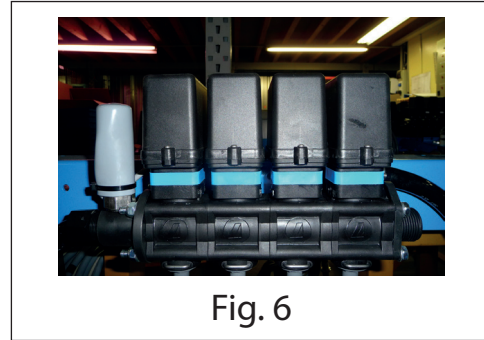


Fig. 6

### 3. Installing kit 292483 into the control box.

- Installing the 19-contact plug:

Drill into the unit's lid (Fig. 7 for DP Control/DPTronic), (Fig. 8 for Gestronic). Central hole 25mm in diam., and 4 holes 3.2mm in diam. for the fasteners.

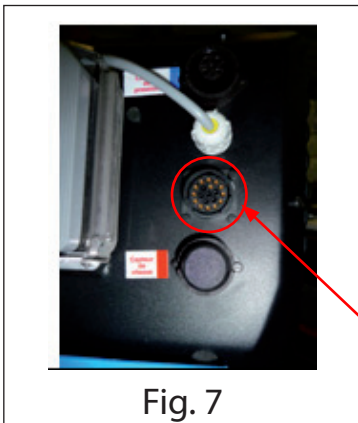


Fig. 7

19-contact plug

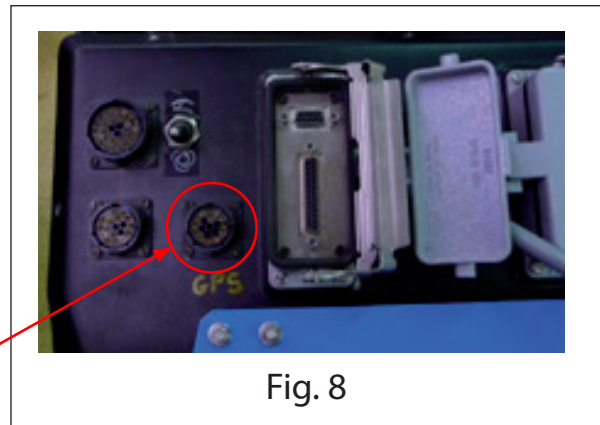


Fig. 8

- Installing the interface card and beams into the unit.

#### DP Control/DP Tronic version:

Fasten the interface card onto the Dp Tronic card using the spacer (a) and the M3x12 cheese head screw, (see Fig. 9 and 10).

**IMPORTANT: Put the spacer (a) in its correct position when installing the card**

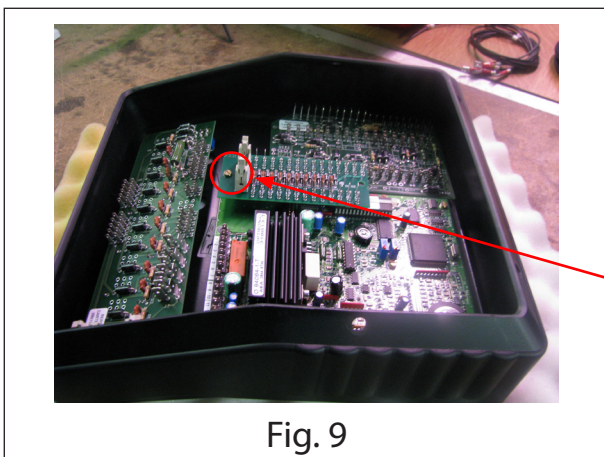


Fig. 9

(a)

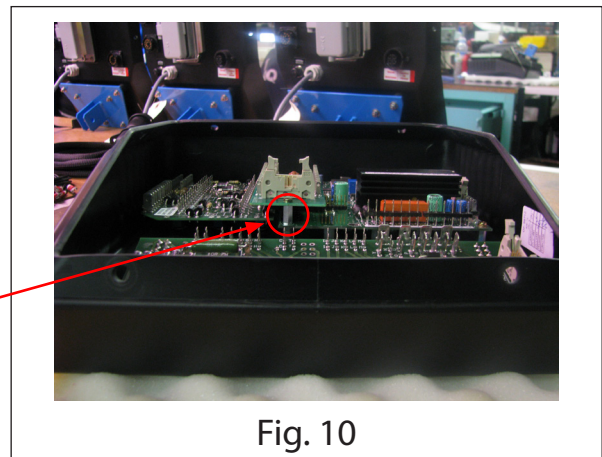
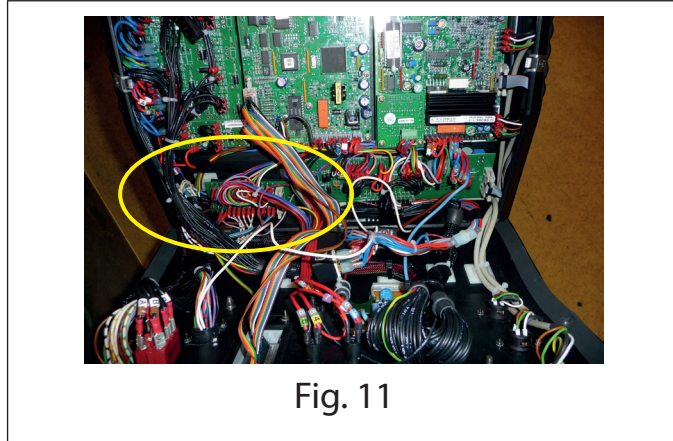


Fig. 10

## Gestronic version:

Install the card into the lower part of the unit (see Fig. 11)



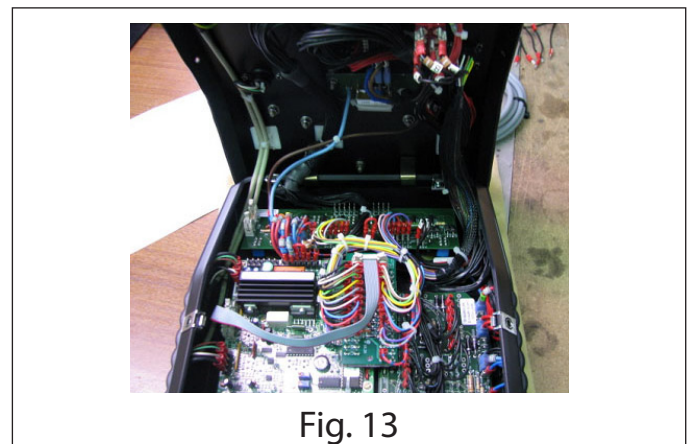
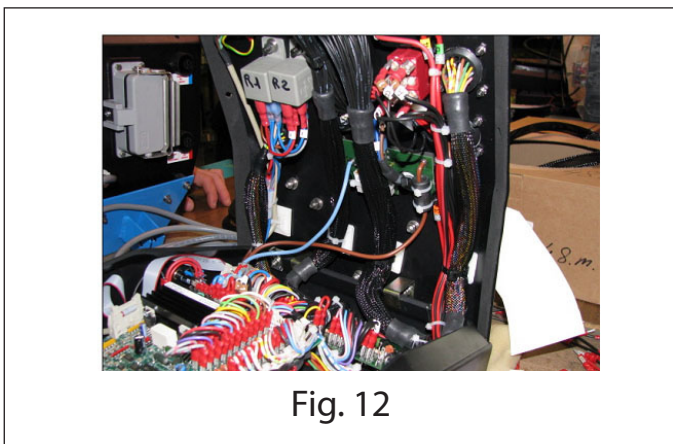
- **Installing bundles into the unit:**

Put the bundles between the cards so as to avoid forcing them when the cover is closed, and in this way, to avoid causing short-circuits between the components (DP tronic see Fig 12 and 13, Gestronic, see Fig 11).

For the electrical cabling, refer to the diagrams provided in the appendix that correspond to the type of sprayer to equip.

### **Note:**

- Cabling diagrams 592476 to 592479 show all the wires that are added with the kit, as well as the original connected wires in the unit that required a change of position.
- The cabling diagrams on Boxer ref 592476 (DP tronic version) and 592478 (Gestronic version) indicate the cabling of kit 292483 son the **BOXER II Evolution models made beginning in mid-2006**. For older models, whose in-cab electrical equipment has undergone various upgrades, connecting the kit will require adaptations (contact us).



- **Power cabling for the changeover relay cards (for kit 297352):**

Change the position of wires 6-8-10-12-14-16 in accordance with the cabling diagram 598236 in the appendix.

## 4. Installing the changeover relay unit in the sprayer (for kit 297352):

- Fasten the changeover relay unit close to the connection of the segments' valves on the sprayer.
- Carry out the cabling of the segments' valves on the power outputs of the relay card and the 19-wire cable on the sprayer's connection bar (see diagrams 598237, 598238 or 598239 depending on models).

## 5. Checking the interface's operation after installation:

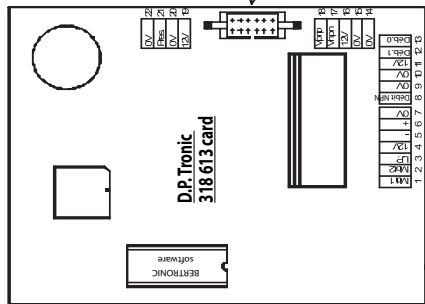
- Verifying that the segments' valves are in good working order via the original control switches.
- Verifying that valves can be controlled by the 19-contact plug (simulating control by the GPS unit):
  - use a wire with an end connected to a 12V source,
  - and with the other stripped end, make contact successively on terminals A to K:

when 12V on terminal A, order the opening of Valve 1, turn off 12V on A, order the closing of Valve 1.  
same operation on terminal B for Valve 2, terminal C for Valve 3, ..., K for Valve 10.

- Checking general spray cutoff signals on terminals L and M of the 19-contact plug:

When General spray switch ON (button down):                      0V on L,                      12V on M.

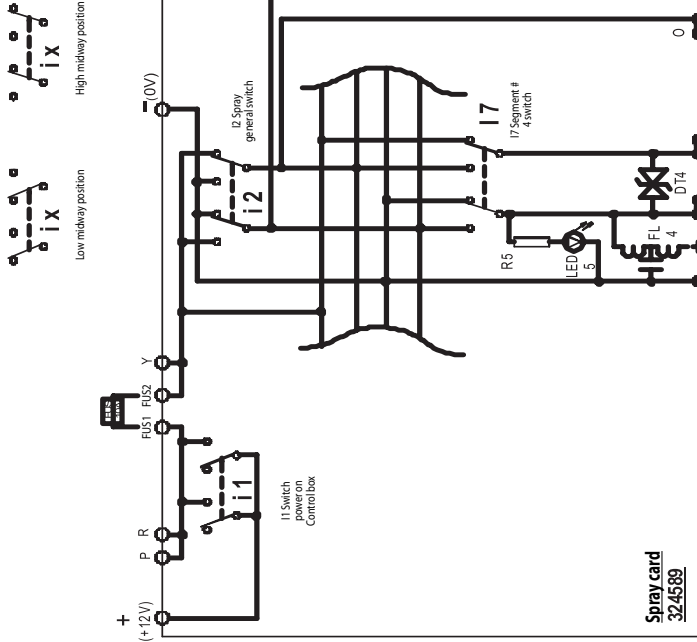
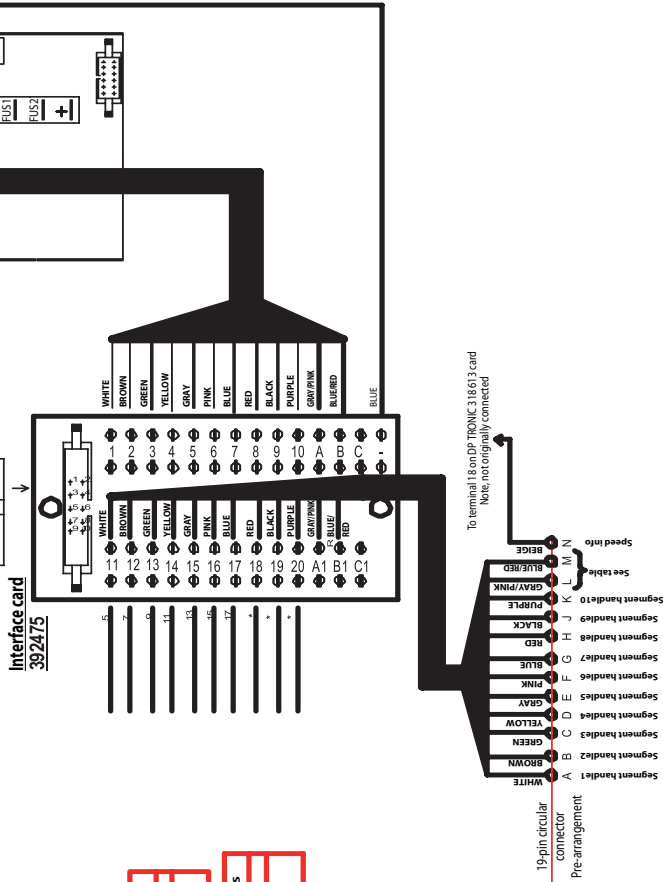
When General spray switch OFF (button up):                      12V on L,                      0V on M.



* SEH > 7 segment	
Terminal #	Wire #
18	33
19	38
20	43

* POWER DISTRIBUTORS	
Terminal #	Wire #
18	41
19	43
20	45

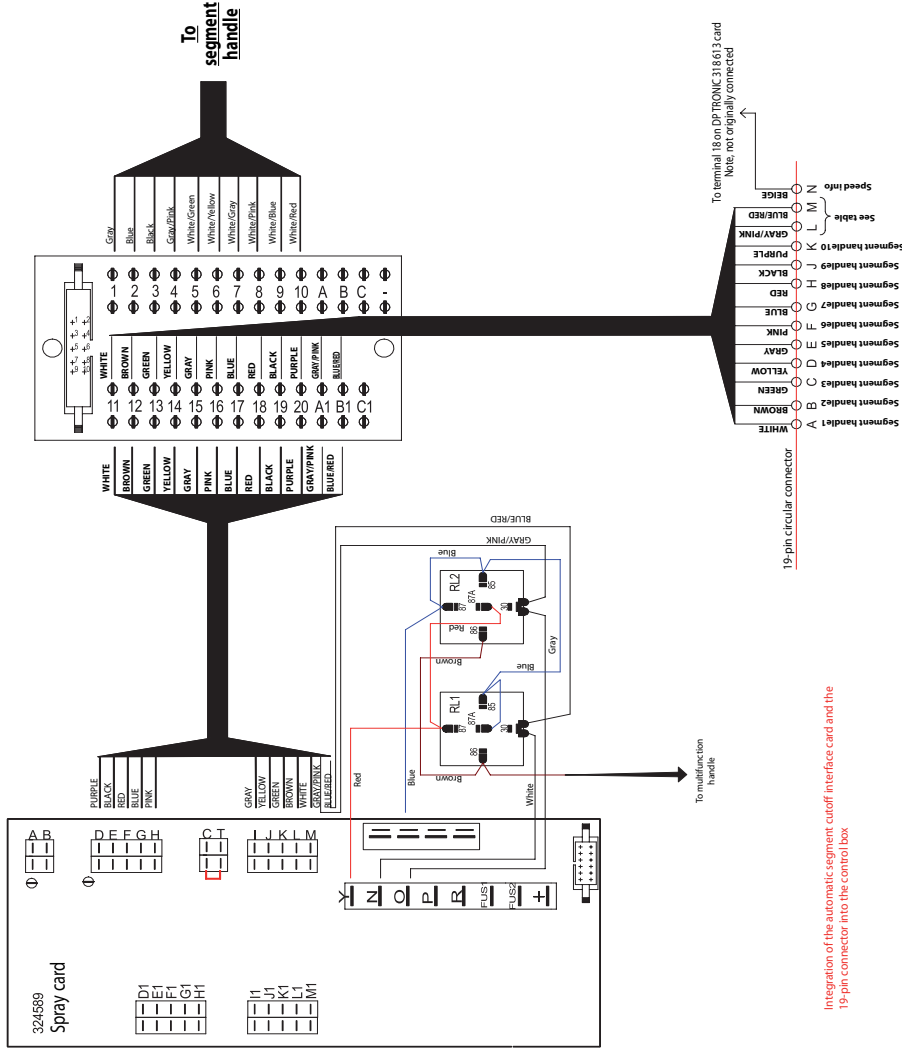
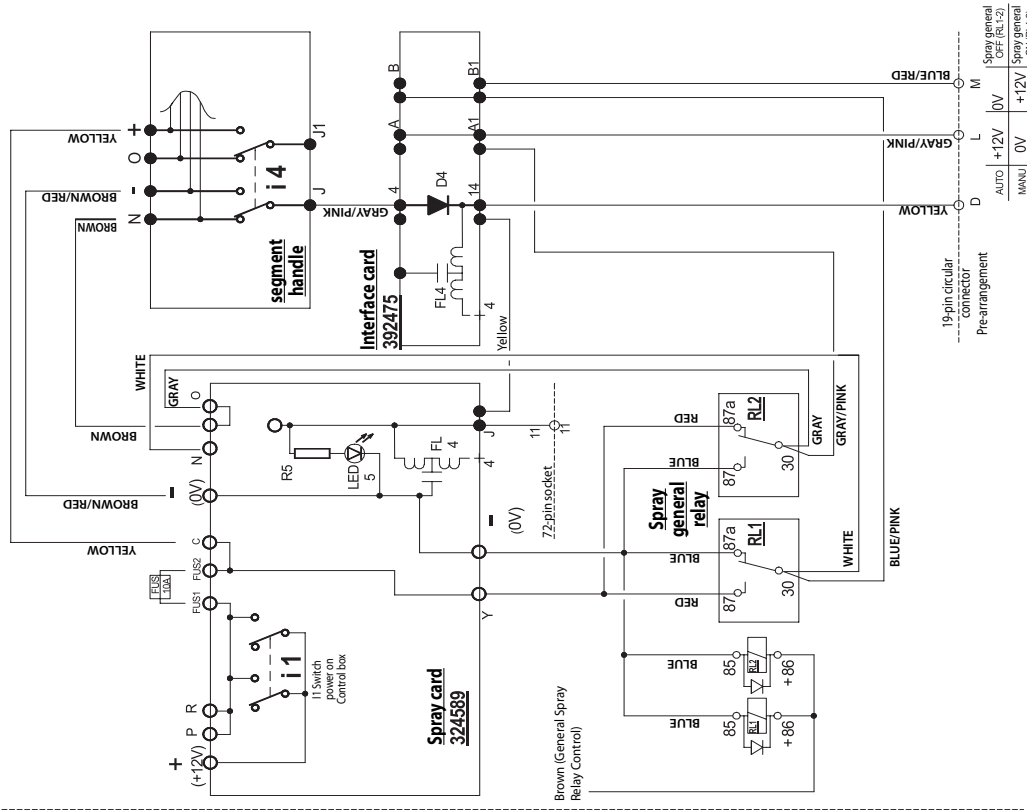


BERTHOUD EXTENDED					
B	01/2010	Added terminal M; added terminal N (GPS speed); added concept diagram	5639	RBe	
A	04/2008	Created	5008	RBe	
VER	DATE	CHANGES	DIFF.	INITIALS	
		Automatic segment cutoff interface wiring TRAILING WITHOUT HANDLE	IDENTIFICATION #		
			592 477		
			FOLIO: 1 / 1		

592 479

B A3

## Concept diagram



Integration of the automatic segment cutoff interface card and the 19-pin connector into the control box

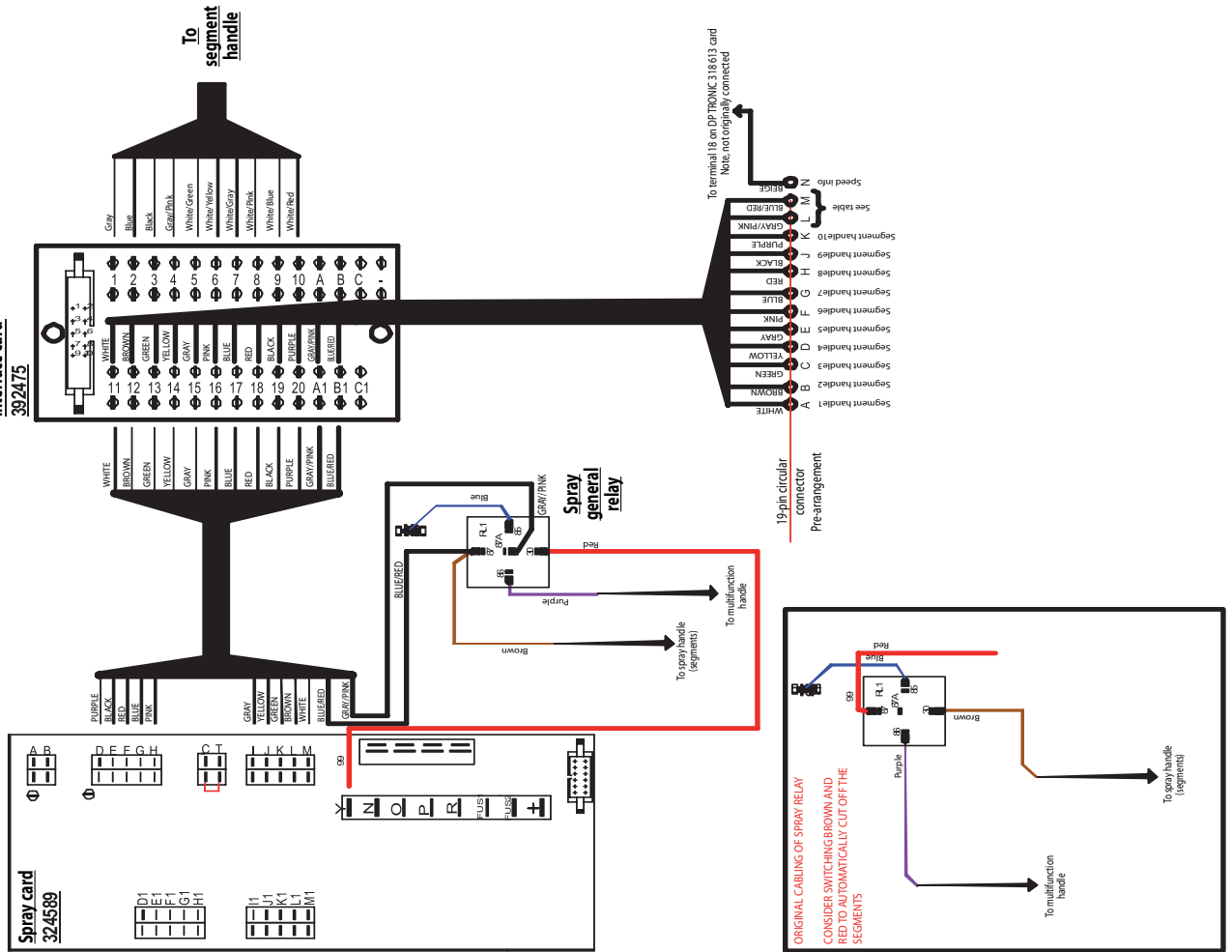
BERTHOUD®		69220 BELLEVILLE	
B	01/2010	Added terminal M; added terminal N (GPS speed); added concept diagram	5639 RBe
A	04/2008	Created	5006 RBe
VER	DATE	CHANGES	DIFF. INITIALS
		Automatic segment cutoff interface wiring TRAILING WITH HANDLE	
		IDENTIFICATION #	
		592 479	
		FOLIO: 1 / 1	

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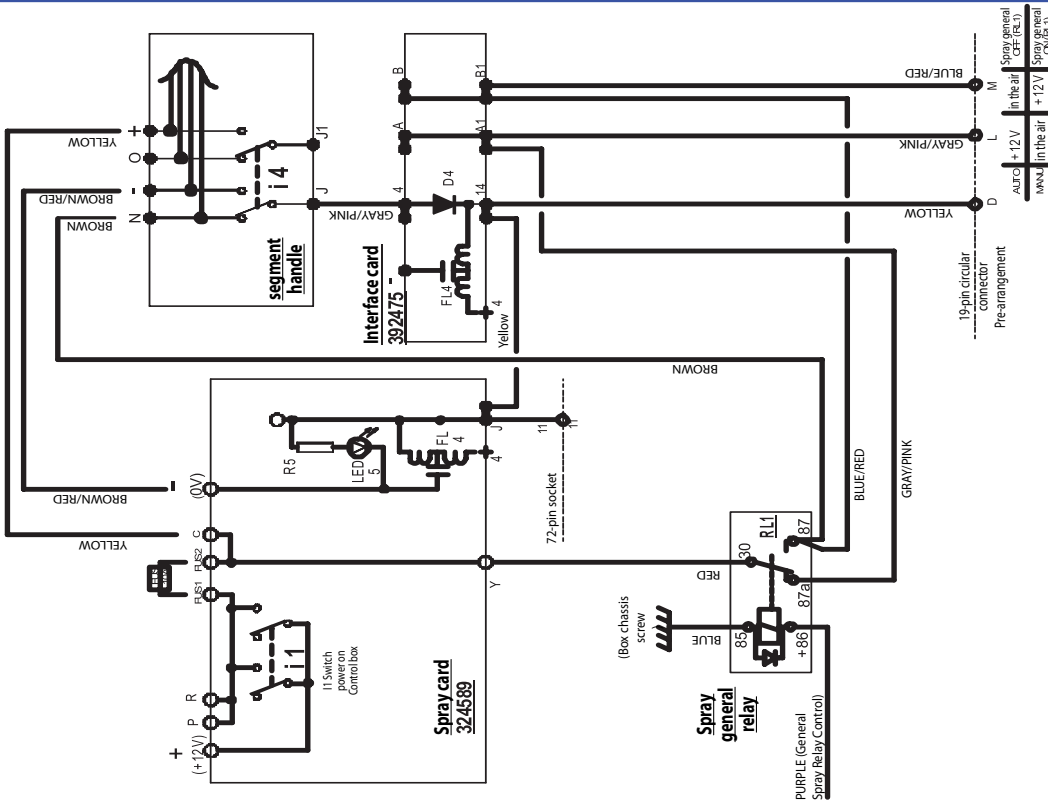
592 476

B A3

## Wiring diagram



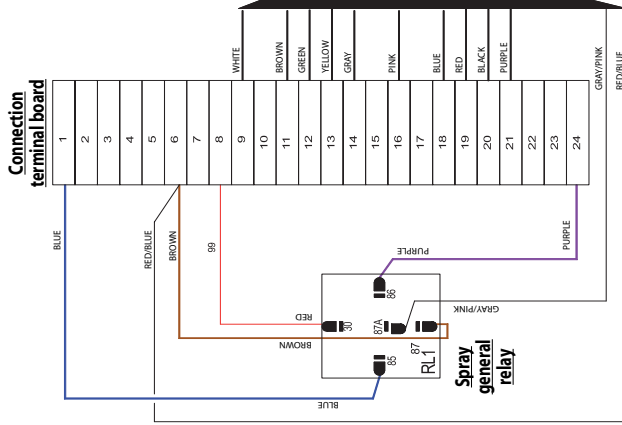
## Concept diagram



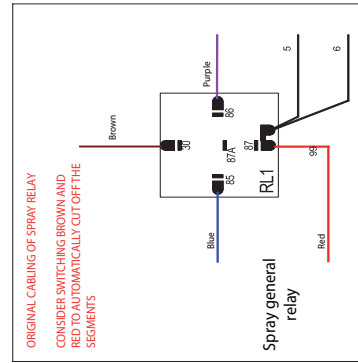
592478

B A3

## Wiring diagram

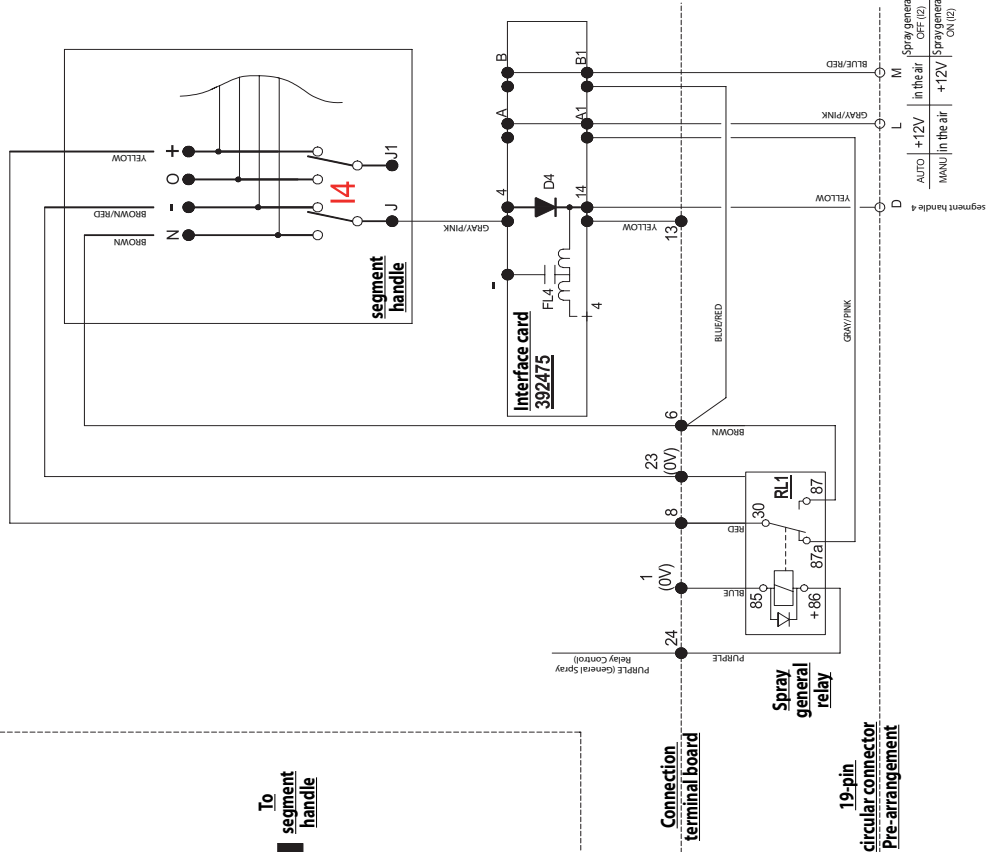


Connect the wire 41 to the terminal 18 of DP TRONC card 318.613. Note: wire 41 originally connected to terminal 17 DP TRONC card 318.613



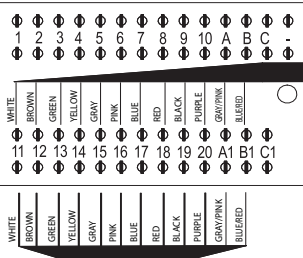
Integration of the automatic segment cutoff interface card and the 19-pin connector in the box under the seat BOXER

## Concept diagram



Disconnect the 3 wires of the speed sensor of terminals 54, 55 and 56, and connect the BEIGE wire to terminal 55

### Interface card 392475

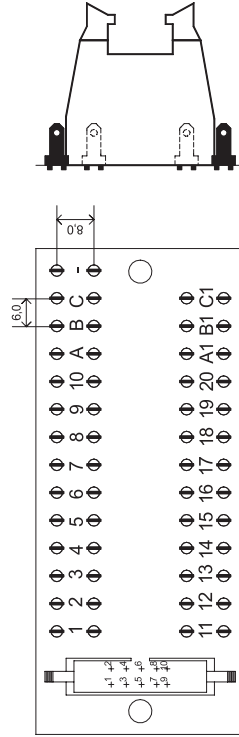
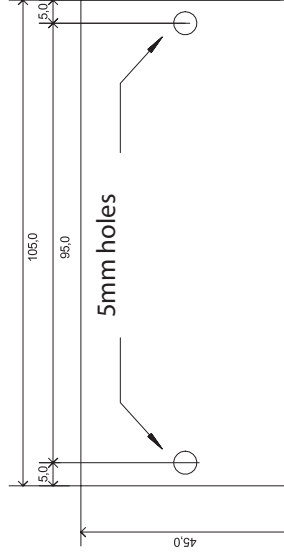
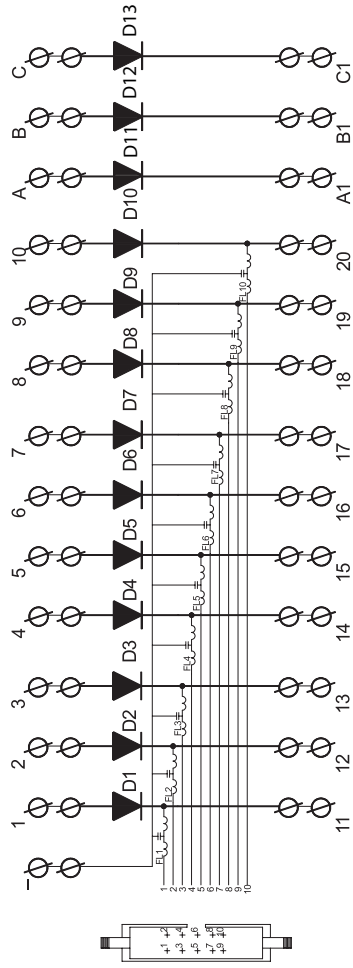


### To segment handle



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Automatic segment cutoff interface wiring			IDENTIFICATION #
BOXER GST			592478
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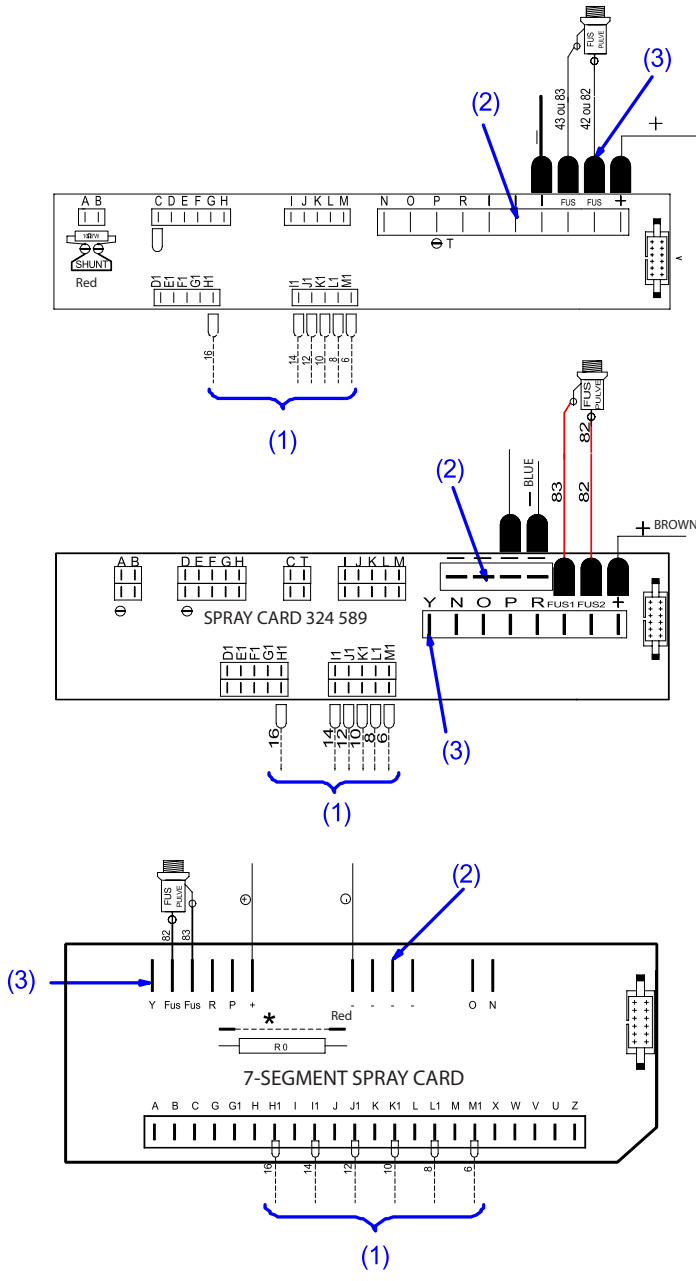


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Automatic segment cutoff interface card			IDENTIFICATION #
			392475
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598236 A A3

## Power cabling of the changeover relay card in the DP Tronic unit (based on the 3 models of the segments' control cards)

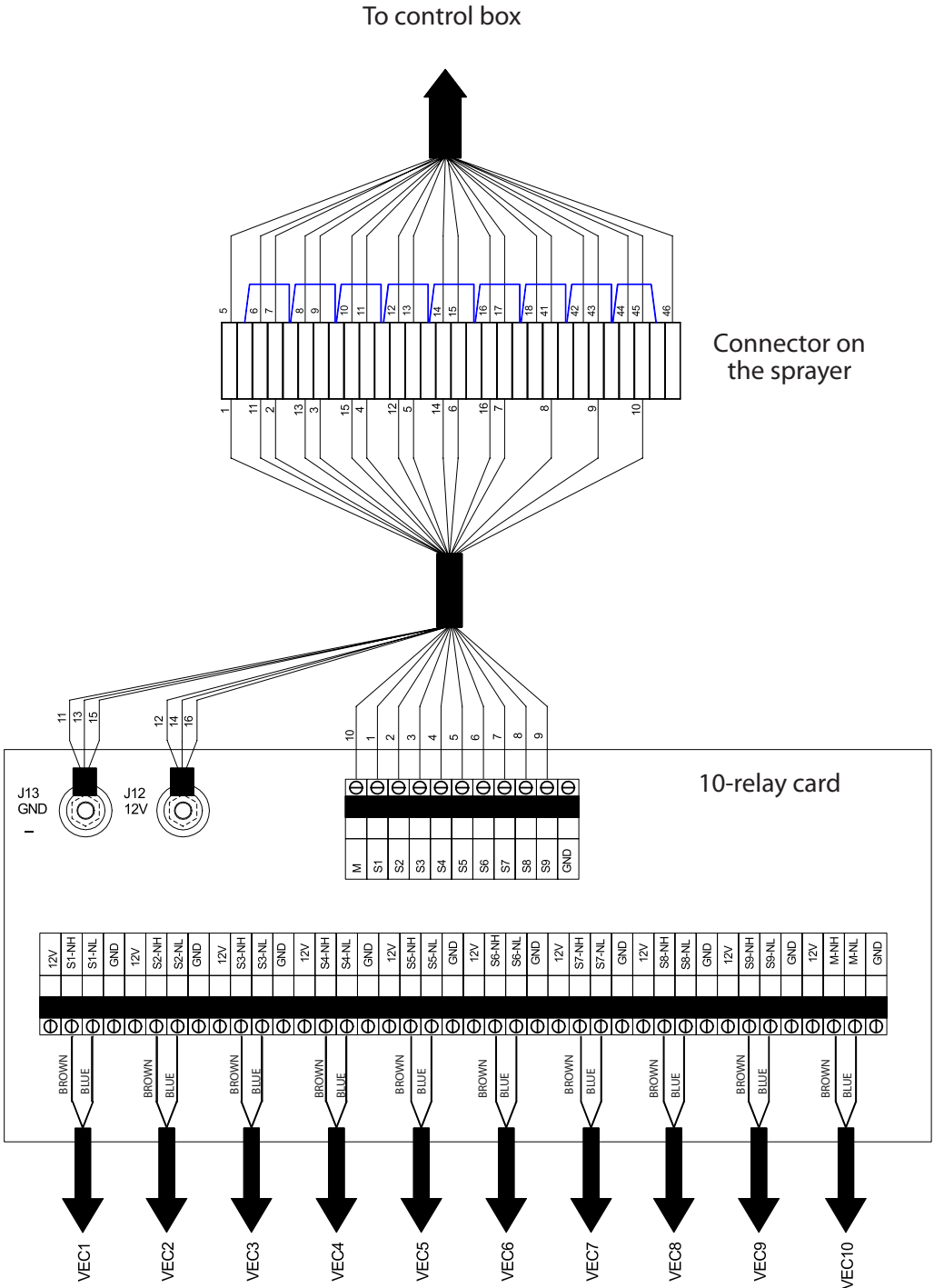
- (1): original position of wires 6, 8, 10, 12, 14, 16 on the segments' control cards
  - (2): new position of wires 6, 8, 10 for OV connection \*
  - (3): new position of wires 12, 14, 16 for 12V connection after 10A fuse \*
- \* Wires to be twinned with the wire already in place, if need be using the provided lugs



					BERTHOUD® agricole	
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Power cable relay card to spray card					IDENTIFICATION # <b>598236</b>	
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598237

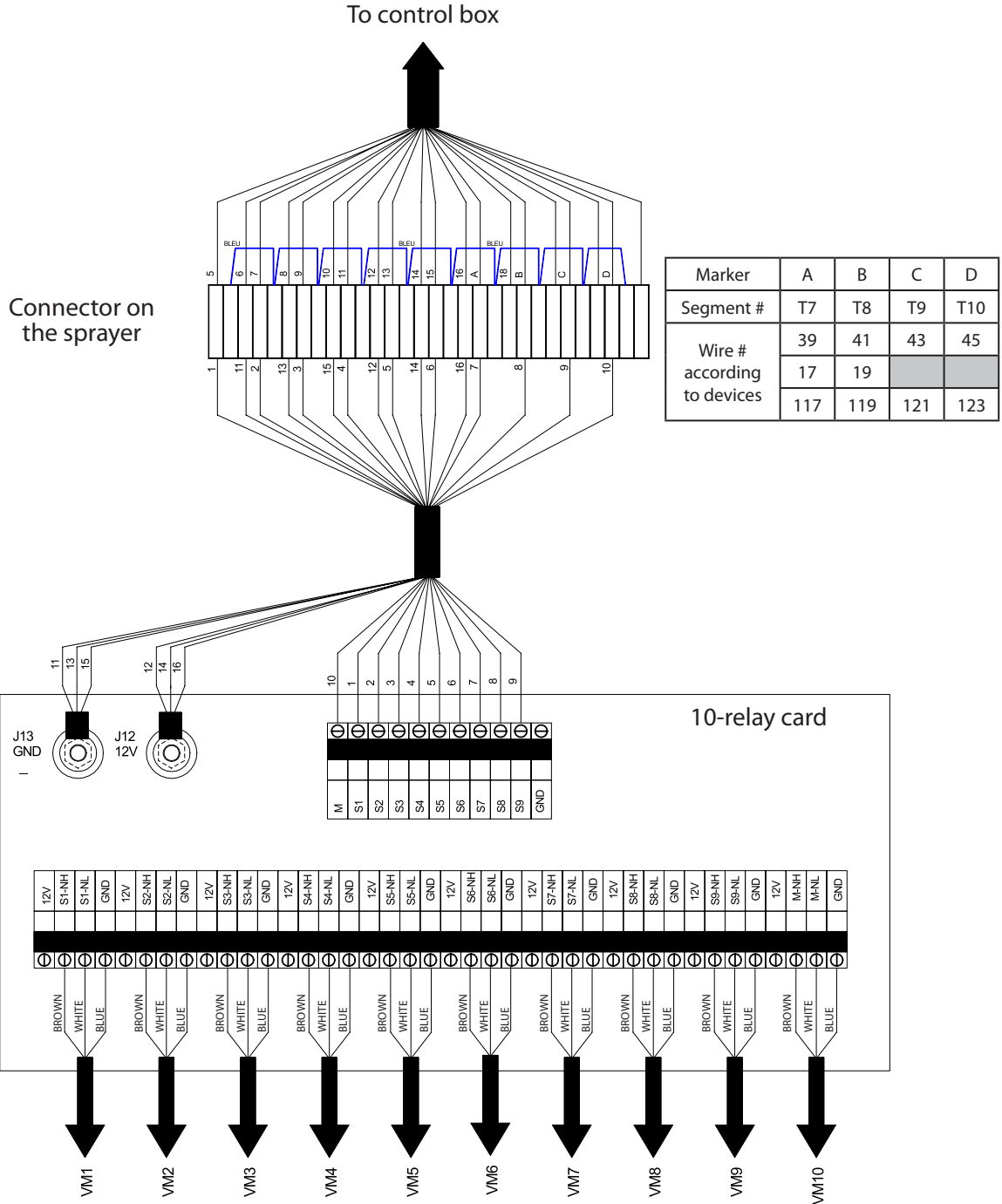
A A3



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				69220 BELLEVILLE	
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VER	DATE		CHANGES	DIFF	SIG
<b>Relay card cabling</b>					
VEC Valves version					
				IDENTIFICATION #	
				<b>598237</b>	
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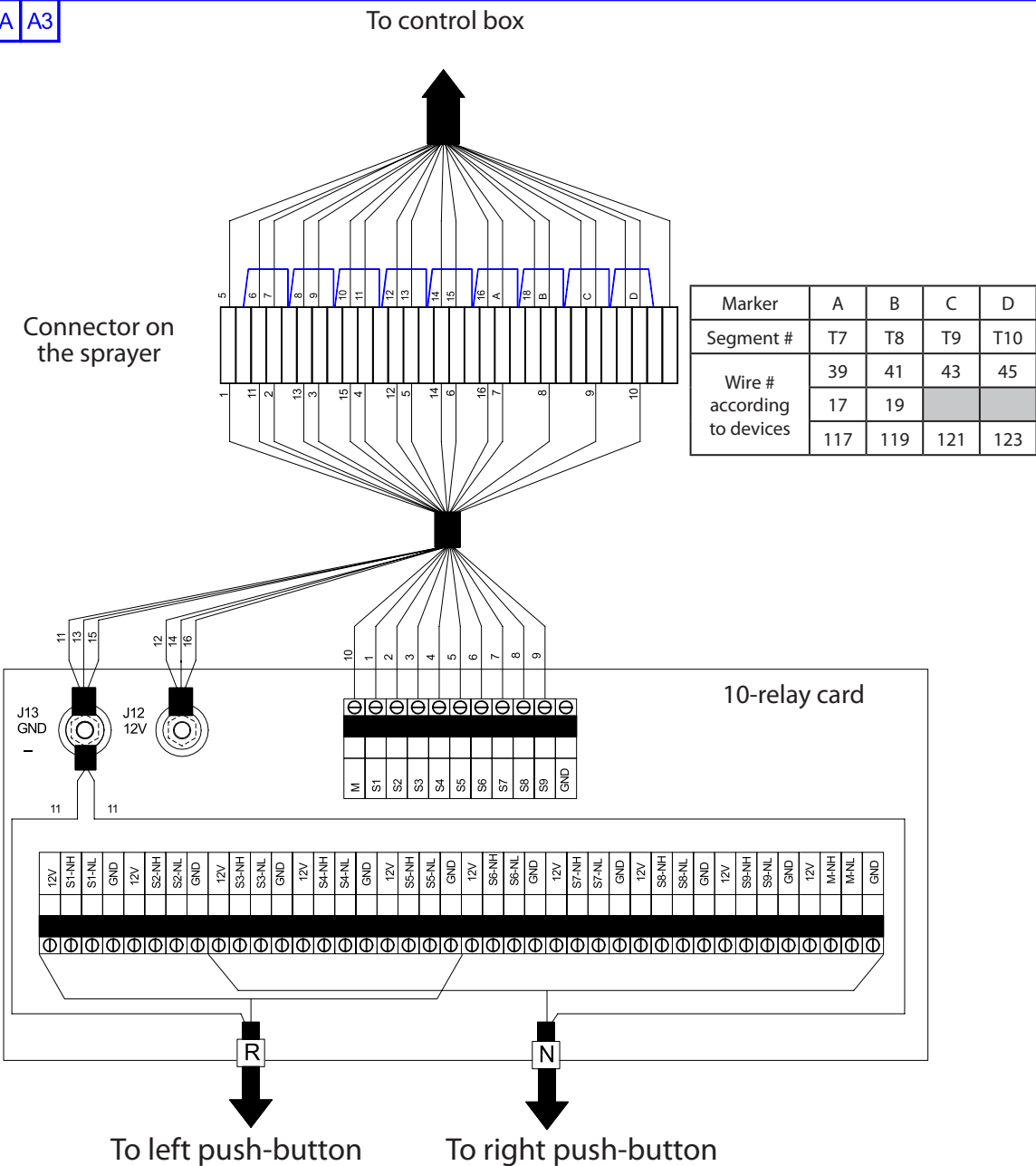
598238

A A3



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<b>Relay card cabling</b> VEC Valves version				IDENTIFICATION # <b>598238</b>	
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598239 A A3



EKTAR ramp (assigning wires to the relay card based on the number of segments)

Number of segments	Bundle #	Mass	T1		T2		T3		T4		T5		T6		T7		T8		T9		T10	
			S1-NL	S1-NH	S2-NL	S2-NH	S3-NL	S3-NH	S4-NL	S4-NH	S5-NL	S5-NH	S6-NL	S6-NH	S7-NL	S7-NH	S8-NL	S8-NH	S9-NL	S9-NH	M-NL	M-NH
5	red (R)	11	1	2	3	4																
	black (B)	11					1	2	3	4	5	6										
6	red (R)	11	1	2	3	4			5	6												
	black (B)	11							1	2	3	4	5	6								
7	red (R)	11	1	2	3	4			5	6												
	black (B)	11							1	2	3	4	5	6	7	8						
8	red (R)	11	1	2	3	4			5	6												
	black (B)	11									1	2	3	4	5	6	7	8				
9	red (R)	11	1	2	3	4			5	6												
	black (B)	11									1	2	3	4	5	6	7	8	9	10		
10	red (R)	11	1	2	3	4			5	6												
	black (B)	11									1	2	3	4	5	6	7	8	9	10		

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<b>Relay card cabling</b>				IDENTIFICATION #	
Safi Valves version on EKTAR ramp				<b>598239</b>	
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