



SERVICE BULLETIN

BULLETIN NUMBER: B-0012

DATE: 07/02/2023

ISO-BUS CONTROLLER SCHEMATIC

This bulletin contains the ISO-BUS controller schematics for the following Bredal Spreader Versions:

1. F4
2. F8 / F10
3. K-Series Variable Rate
4. K-Series XESC Versions

Use these schematics as a tool for technical support for your dealer technicians.

Please NOTE: The ISO-BUS controller has a special key tool to allow wire install / removal from the ISO-BUS board.

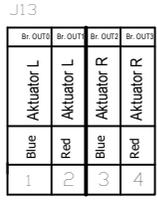
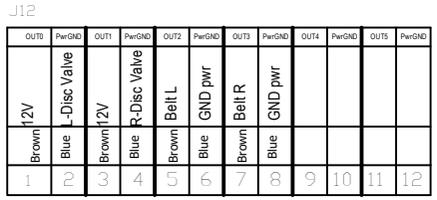
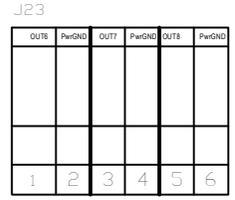
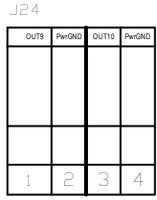
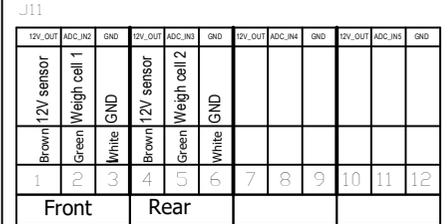
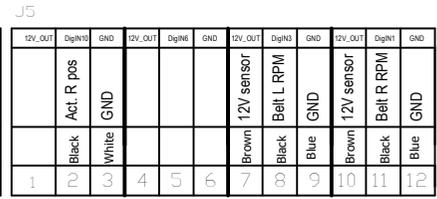
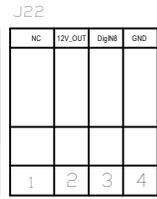
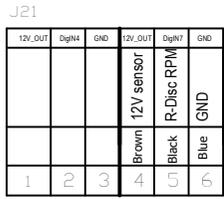
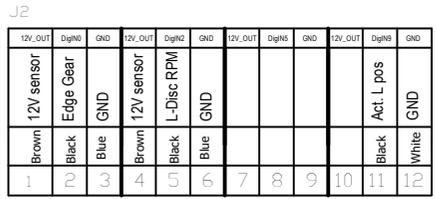
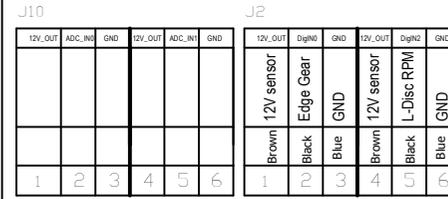
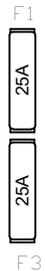
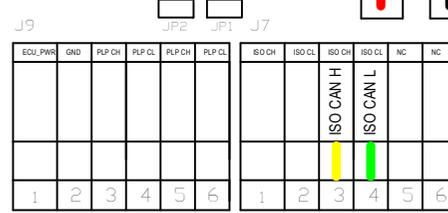
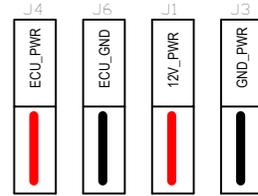
Any further support, please contact your Bredal Representative.



USB



LED on = Programming completed.

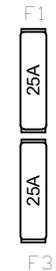
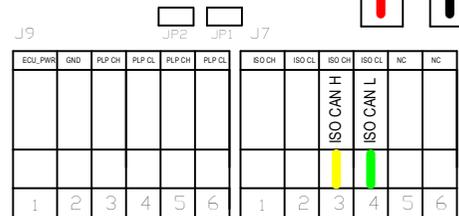
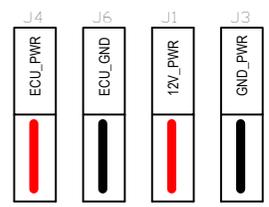
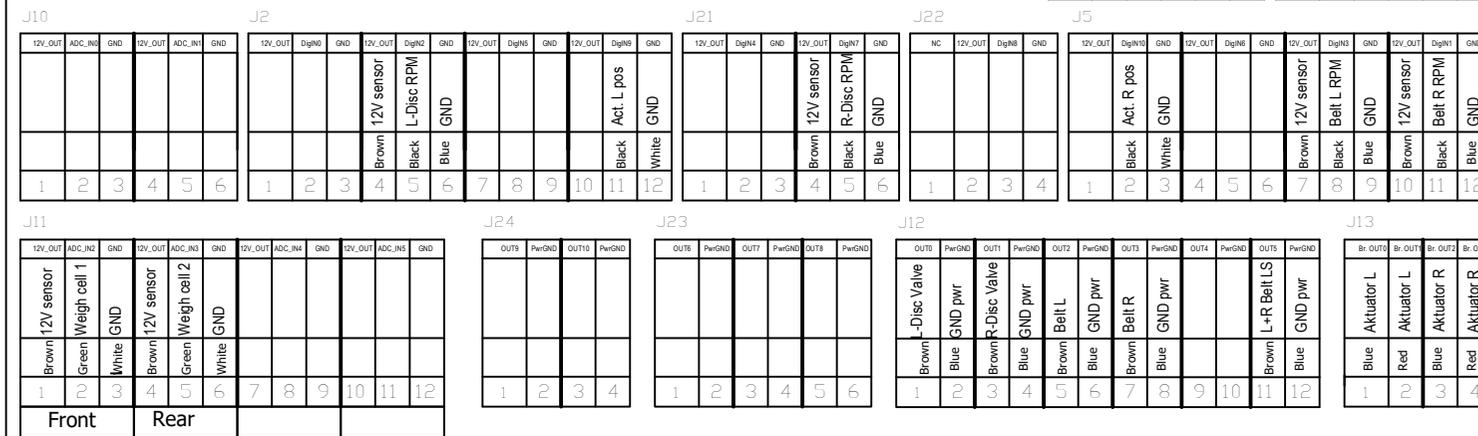


Date		Variable Rate / Section Control
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Checked		
Material	Generic	
		F4 Linkage
		Rev
		A4
Weight		0,00 kg



USB

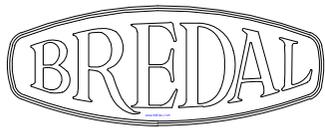
LED Green = Programming completed



Variations on dimensions without tolerance values are according to

Drawn	16-11-2024	he
Weight	0,00 kg	
RawMaterial		

F4-Hydraulic Spread unit -2024>



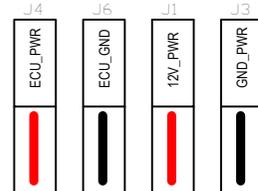
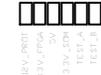
Rev	0
	A4

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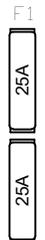
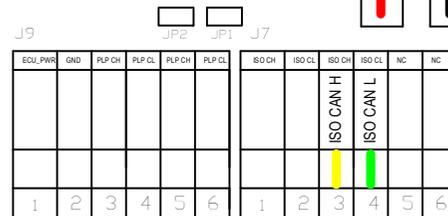
REV	DESCRIPTION	DATE	APPROVED
1	Diagram opdateret, J12. 1. 2. 3. 4. 11. 12. - J2. 1. 2. 3.	06-09-2024	HE



USB



LED on = Programming completed.



J10

12V_OUT	ADC_IN3	GND	12V_OUT	ADC_IN1	GND
1	2	3	4	5	6

J2

12V_OUT	DigH2	GND	12V_OUT	DigH2	GND
Brown	12V sensor		Black	Edge Clear	
Blue	GND		Brown	12V sensor	
Black	L-Disc RPM		Blue	GND	
1	2	3	4	5	6

J21

12V_OUT	DigH4	GND	12V_OUT	DigH7	GND
Brown	12V sensor		Black	Wheel	
Blue	GND		Brown	12V sensor	
Black	R-Disc RPM		Blue	GND	
1	2	3	4	5	6

J22

NC	12V_OUT	DigH8	GND
1	2	3	4

J5

12V_OUT	DigH10	GND	12V_OUT	DigH6	GND
1	2	3	4	5	6

J2

12V_OUT	DigH3	GND	12V_OUT	DigH1	GND
Brown	12V sensor		Black	Belt L RPM	
Blue	GND		Brown	12V sensor	
Brown	Belt R RPM		Black	GND	
1	2	3	4	5	6

J11

12V_OUT	ADC_IN2	GND	12V_OUT	ADC_IN2	GND
Brown	12V sensor		Green	Weigh cell 1	
White	GND		White	GND	
Brown	12V sensor		Green	Weigh cell 2	
White	GND		White	GND	
1	2	3	4	5	6
L-Front		R-Front		R-Rear	

J24

12V_OUT	ADC_IN3	GND	12V_OUT	ADC_IN3	GND
Brown	12V sensor		Green	Weigh cell 3	
White	GND		White	GND	
Brown	12V sensor		Green	Weigh cell 4	
White	GND		White	GND	
1	2	3	4	5	6
L-Rear		R-Rear		R-Rear	

J23

OUT5	PwrGND	OUT10	PwrGND
1	2	3	4

J23

OUT6	PwrGND	OUT7	PwrGND	OUT8	PwrGND
1	2	3	4	5	6

J12

OUT0	PwrGND	OUT1	PwrGND	OUT2	PwrGND	OUT3	PwrGND	OUT4	PwrGND	OUT5	PwrGND
Brown	12V	Blue	L-Disc Valve	Brown	12V	Blue	R-Disc Valve	Brown	Belt L	Blue	GND pwr
1	2	3	4	5	6	7	8	9	10	11	12

J13

Br. OUT0	Br. OUT1	Br. OUT2	Br. OUT3
Blue	Aktuator L	Red	Aktuator L
Blue	Aktuator R	Red	Aktuator R
1	2	3	4

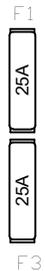
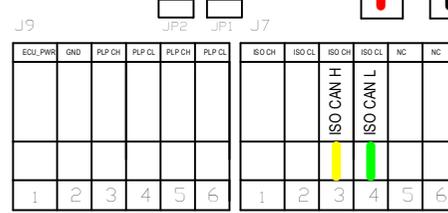
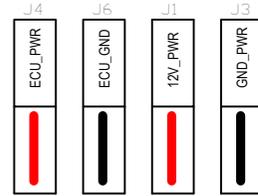
Date	
Drawn	01/01/2023
Checked	
Material	Generic
F8/F10	
Rev	
A4	
Weight	0,00 kg



USB



LED on = Programming completed.



J10

12V_OUT	ADC_IN3	GND	12V_OUT	ADC_IN1	GND
1	2	3	4	5	6

J2

12V_OUT	DigH2	GND	12V_OUT	DigH2	GND
12V sensor	Edge gear	GND	12V sensor	L-Disc RPM	GND
Brown	Black	Blue	Brown	Black	Blue
1	2	3	4	5	6

J21

12V_OUT	DigH4	GND	12V_OUT	DigH7	GND
12V sensor	Wheel	GND			
Brown	Black	Blue			
1	2	3	4	5	6

J22

NC	12V_OUT	DigH8	GND
1	2	3	4

J5

12V_OUT	DigH10	GND	12V_OUT	DigH6	GND	12V_OUT	DigH3	GND
						12V sensor	Belt L RPM	GND
						Brown	Black	Blue
1	2	3	4	5	6	7	8	9

J11

12V_OUT	ADC_IN2	GND	12V_OUT	ADC_IN3	GND
12V sensor	Weigh cell 1	GND	12V sensor	Weigh cell 2	GND
Brown	Green	White	Brown	Green	White
1	2	3	4	5	6

J12

OUT0	PwrGND	OUT1	PwrGND	OUT2	PwrGND	OUT3	PwrGND	OUT4	PwrGND	OUT5	PwrGND
				Belt	GND pwr					Edge gear	GND pwr
				Brown	Blue					Brown	Blue
1	2	3	4	5	6	7	8	9	10	11	12

J13

Br. OUT0	Br. OUT1	Br. OUT2	Br. OUT3
1	2	3	4

J11

12V_OUT	ADC_IN2	GND	12V_OUT	ADC_IN3	GND
12V sensor	Weigh cell 1	GND	12V sensor	Weigh cell 2	GND
Brown	Green	White	Brown	Green	White
1	2	3	4	5	6

J24

OUT9	PwrGND	OUT10	PwrGND
1	2	3	4

J23

OUT6	PwrGND	OUT7	PwrGND	OUT8	PwrGND
1	2	3	4	5	6

J12

OUT0	PwrGND	OUT1	PwrGND	OUT2	PwrGND	OUT3	PwrGND	OUT4	PwrGND	OUT5	PwrGND
				Belt	GND pwr					Edge gear	GND pwr
				Brown	Blue					Brown	Blue
1	2	3	4	5	6	7	8	9	10	11	12

J13

Br. OUT0	Br. OUT1	Br. OUT2	Br. OUT3
1	2	3	4

J11

12V_OUT	ADC_IN2	GND	12V_OUT	ADC_IN3	GND
12V sensor	Weigh cell 1	GND	12V sensor	Weigh cell 2	GND
Brown	Green	White	Brown	Green	White
1	2	3	4	5	6

J24

OUT9	PwrGND	OUT10	PwrGND
1	2	3	4

J23

OUT6	PwrGND	OUT7	PwrGND	OUT8	PwrGND
1	2	3	4	5	6

J12

OUT0	PwrGND	OUT1	PwrGND	OUT2	PwrGND	OUT3	PwrGND	OUT4	PwrGND	OUT5	PwrGND
				Belt	GND pwr					Edge gear	GND pwr
				Brown	Blue					Brown	Blue
1	2	3	4	5	6	7	8	9	10	11	12

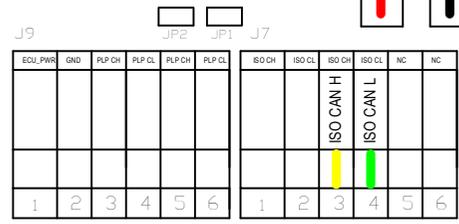
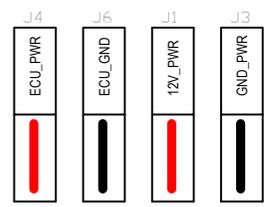
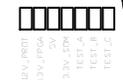
J13

Br. OUT0	Br. OUT1	Br. OUT2	Br. OUT3
1	2	3	4

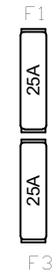
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Drawn	01/01/2023	
Checked		
Material	Generic	
		<i>K-Series VR</i>
		Rev
		A4
Weight		0,00 kg



USB



LED Green = Programming completed.



J10

12V_OUT	ADC_IN3	GND	12V_OUT	ADC_IN4	GND
1	2	3	4	5	6

J2

12V_OUT	DigIn2	GND	12V_OUT	DigIn2	GND
			12V sensor	L-Disc RPM	
			Brown	Black	Blue
					GND
1	2	3	4	5	6

J21

12V_OUT	DigIn4	GND	12V_OUT	DigIn7	GND
			12 V sensor	R-Disc RPM	
			Brown	Black	Blue
			Wheel		
			Blue		GND
1	2	3	4	5	6

J22

NC	12V_OUT	DigIn8	GND
1	2	3	4

J5

12V_OUT	DigIn10	GND	12V_OUT	DigIn6	GND	12V_OUT	DigIn3	GND
			12V sensor	Belt RPM				
			Brown	Black	Blue			
					GND			
1	2	3	4	5	6	7	8	9
10	11	12						

J11

12V_OUT	ADC_IN2	GND	12V_OUT	ADC_IN3	GND	12V_OUT	ADC_IN4	GND	12V_OUT	ADC_IN5	GND
Brown	Green	White									
12V sensor	Weigh cell 1	GND	12V sensor	Weigh cell 2	GND	12V sensor	Weigh cell 3	GND	12V sensor	Weigh cell 4	GND
1	2	3	4	5	6	7	8	9	10	11	12
L-Front			R-Front			L-Rear			R-Rear		

J24

OUT9	PwrGND	OUT10	PwrGND
1	2	3	4

J23

OUT6	PwrGND	OUT7	PwrGND	OUT8	PwrGND
1	2	3	4	5	6

J12

OUT0	PwrGND	OUT1	PwrGND	OUT2	PwrGND	OUT3	PwrGND	OUT4	PwrGND	OUT5	PwrGND
Brown	Blue	Brown	Blue	Brown	Blue						
-Disc Valve	GND pwr	R-Disc Valve	GND pwr	Belt	GND pwr						
1	2	3	4	5	6	7	8	9	10	11	12

J13

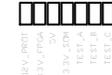
Br. OUT0	Br. OUT1	Br. OUT2	Br. OUT3
1	2	3	4

Variations on dimensions without tolerance values are according to

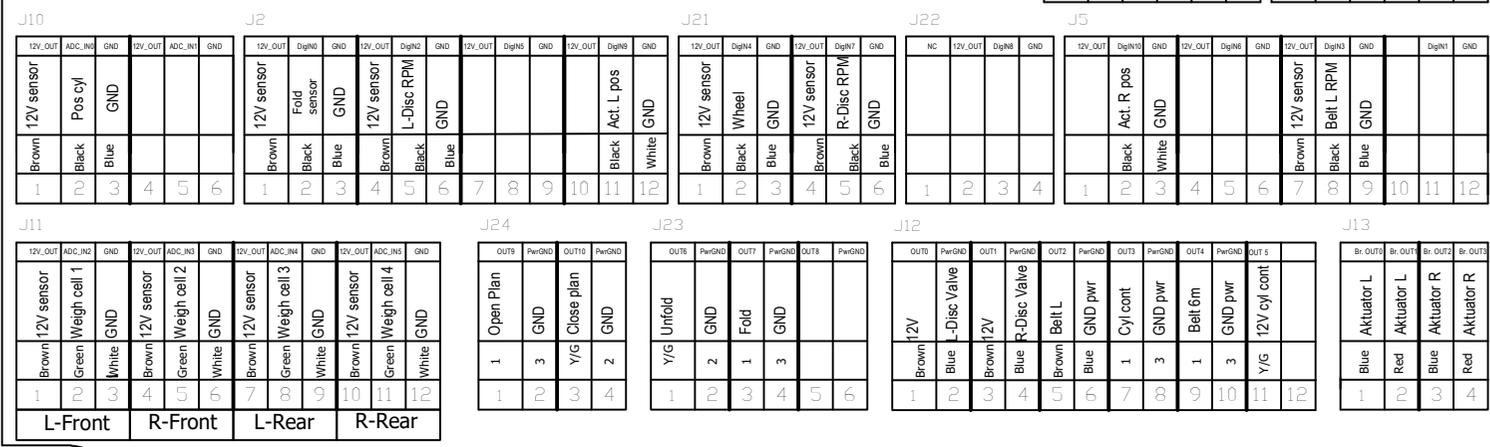
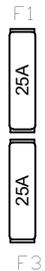
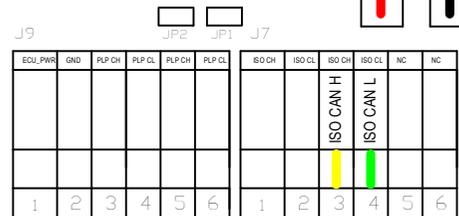
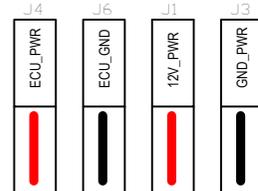
Drawn	06-09-2024	he
Weight	0,00 kg	
RawMaterial		
K-Hydraulic VR - 2024>		
		Rev
		0
		A4
1010035600	Page number	1/1



USB



LED on = Programming completed.



Drawn	01/01/2023	<h2 style="text-align: center;">K-Series XESC</h2> <h3 style="text-align: center;">(Variable Rate / Section Control)</h3>	Rev
Material	Generic		
Thickness			A4
Surface Treatment			
1010029314		Weight	0,00 kg