TECHNICIAN'S OPERATING MANUAL

POLYVRAC XT VISION

Réf : 401 016-02 - EN/DIS

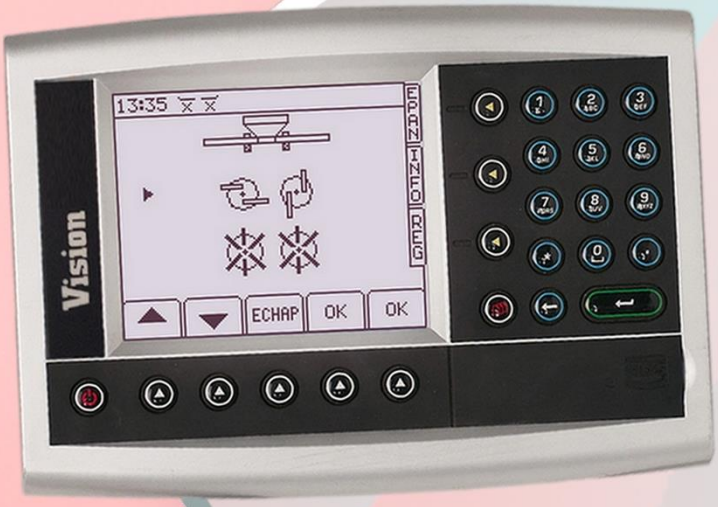
XT 100

XT 130

XT 160

XT 210

XT 240



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SULKY

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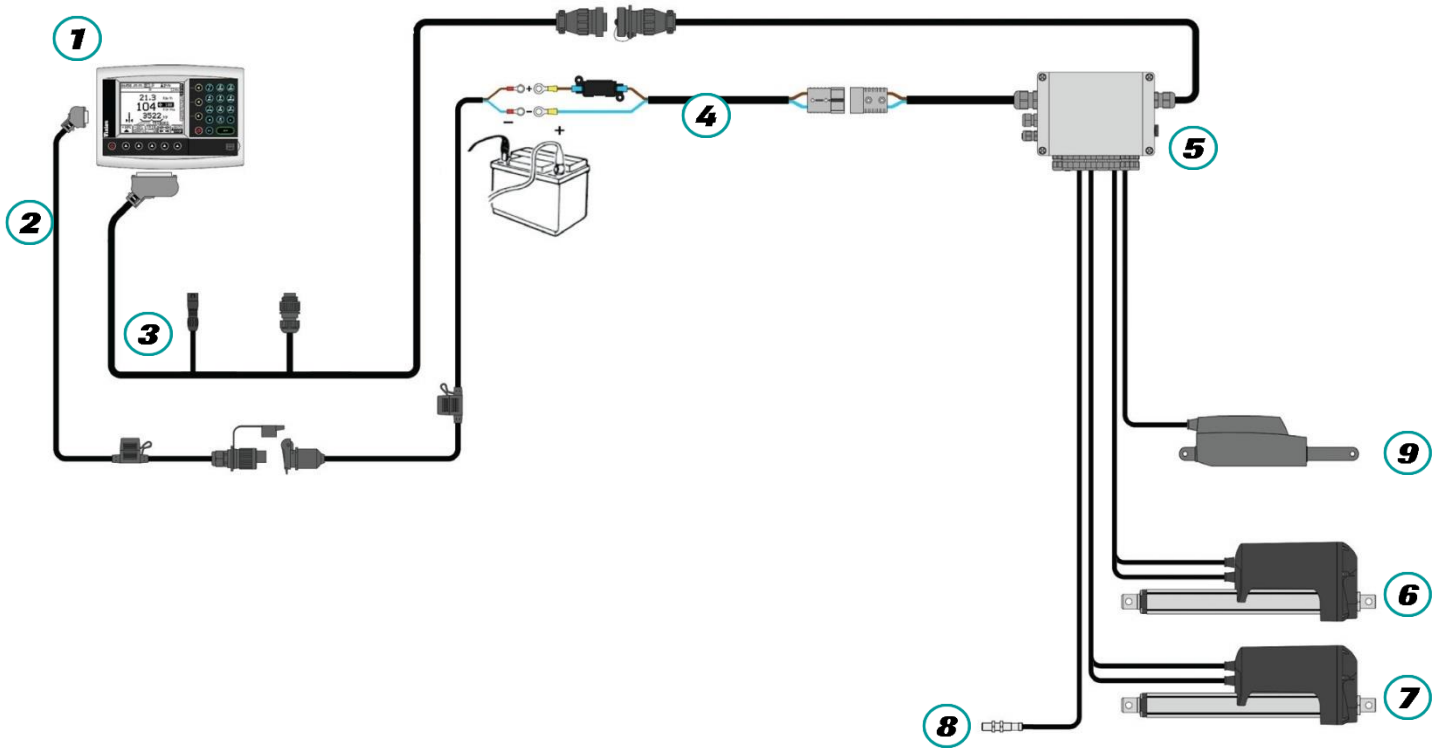
Web : www.sulky-burel.com

To respect the safety and usage instructions, please refer to the user manuals which refer to the fertiliser distributor and electronic console

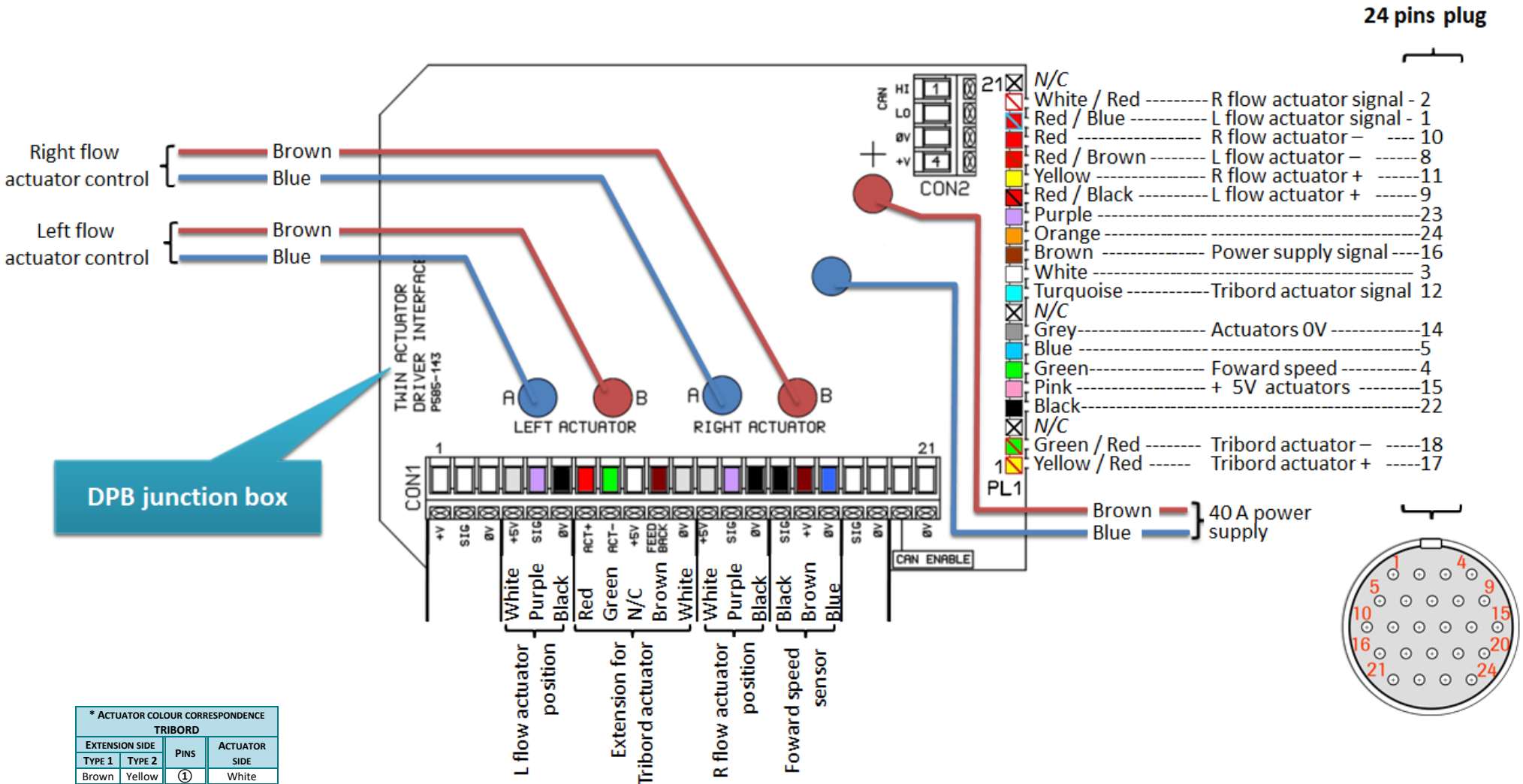
WIRING PRESENTATION:
XT100/130/160 VISION DPB



WIRING PRESENTATION:
XT100/130/160 VISION DPB

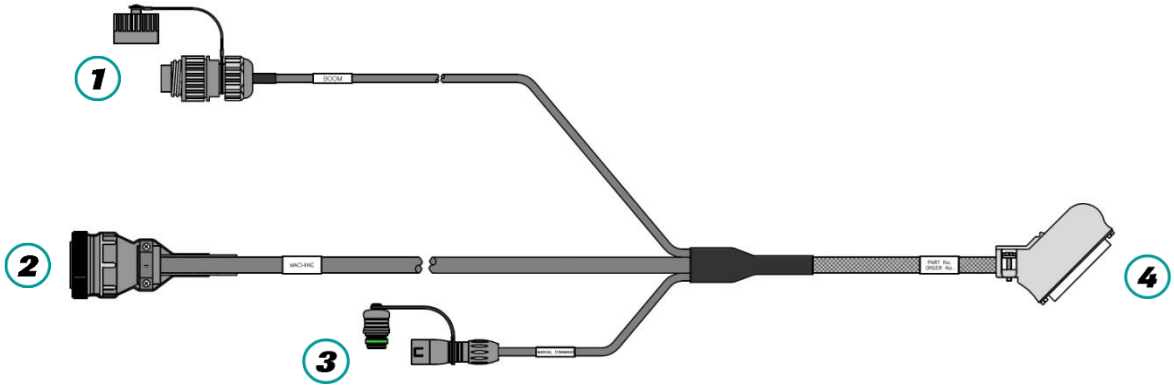
ITEMS	DESCRIPTIONS	PART REFERENCES
1	Vision PSI XT Polyvrac console	*51460040*
2	Console power supply cable	*51000290*
3	XT intermediate wiring	*51000390*
4	40 A battery direct power supply cable	*Cable: 51000270* *40 A fuse 52570120*
5	DPB XT Polyvrac connection unit	*50500440*
6	300 mm gate electric actuators Model: LA 36 -1203000P00AA	*Actuator: 59000643* *Power cable: 51000240* *Signal cable: 51000250*
7		
8	Inductive sensor - Forward speed	*51520150*
9	TRIBORD 3D electric actuator – 50 mm	*29020120*

CONNECTION PLAN:
XT100/130/160 VISION DPB



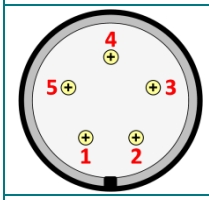
* ACTUATOR COLOUR CORRESPONDENCE TRIBORD			
EXTENSION SIDE		PINS	ACTUATOR SIDE
TYPE 1	TYPE 2		
Brown	Yellow	①	White
White	White	②	Black
Green	Black	③	Blue
Red	Red	④	Red

INTERMEDIATE WIRING:
XT100/130/160 VISION DPB



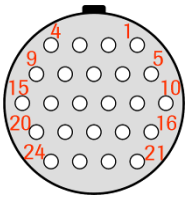
① MALE 7-PIN PLUG NOT USED

PIN	COLOUR	ECONOV FUNCTION	④ 50-WAY CONNECTOR
1	red	Not used	6
2	brown		5
3	blue		4
4	purple		3
5	green		2
6	yellow		1
⏚	black		17



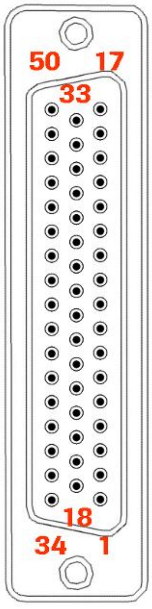
③ MALE 5-PIN PLUG NOT USED

PIN	COLOUR	FUNCTION	④
1	green	Not used	8
2	white		7
3	yellow		24
4	black		48
5	red		39

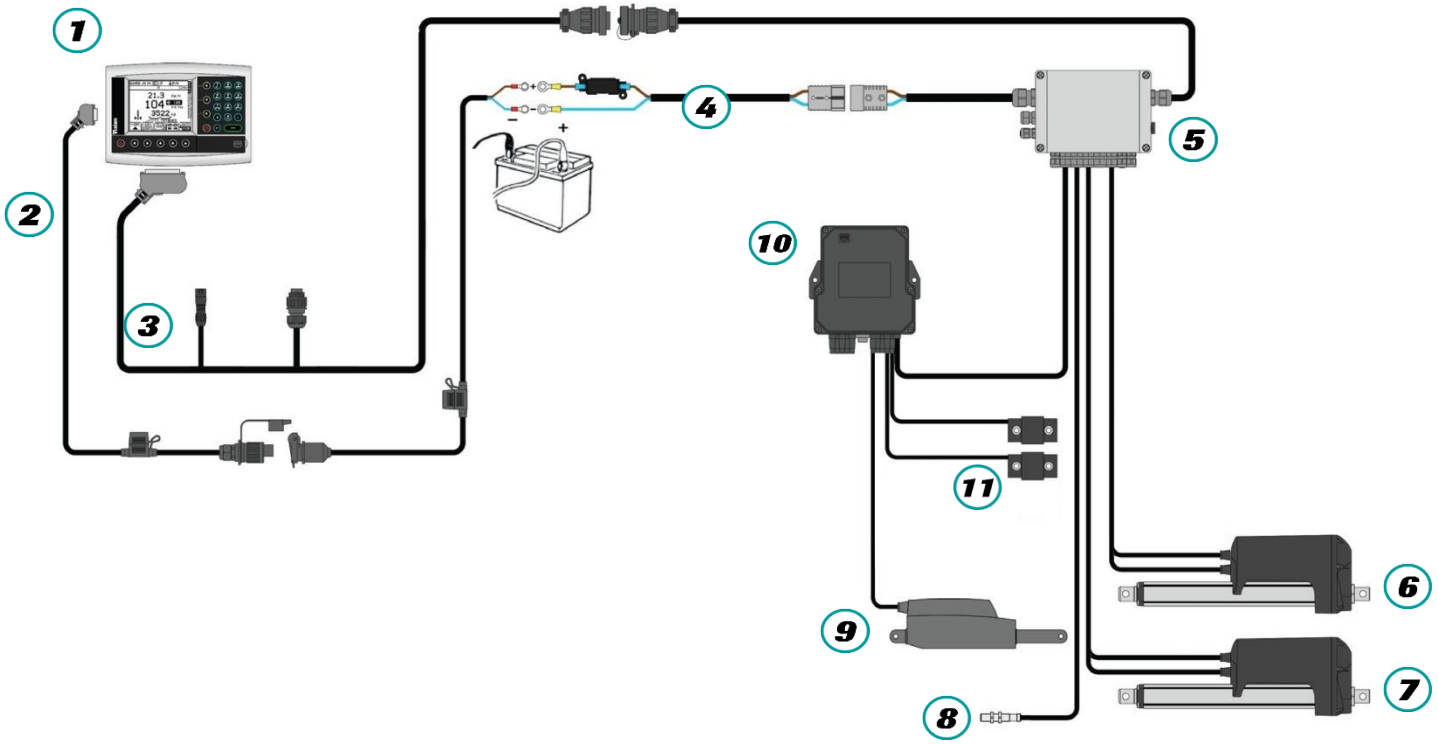


② FEMALE 24-PIN PLUG (SPREADER)

PIN	COLOUR	FUNCTION	④
1	red / blue	Left flow rate actuator signal	25
2	white / red	Right flow rate actuator signal	42
3	white	Not used	20
4	green	Forward movement speed	36
5	blue	Not used	37
6		-	
7		-	
8	red / brown	Left - flow rate actuator	48
9	red / black	Left + flow rate actuator	47
10	red	Right - flow rate actuator	50
11	yellow	Right + flow rate actuator	49
12	Turquoise	Tribord actuator signal	38
13		-	
14	grey	0 V	32
15	pink	+ 5V actuator	28
16	brown	Power supply detection	6
17	yellow / red	Tribord + actuator	17
18	green / red	Tribord - actuator	16
19		-	
20		-	
21		-	
22	black	Not used	34
23	purple	Not used	44
24	Orange	Not used	45



WIRING PRESENTATION:
XT100/130/160 VISION DPB + WEIGHING OPTION

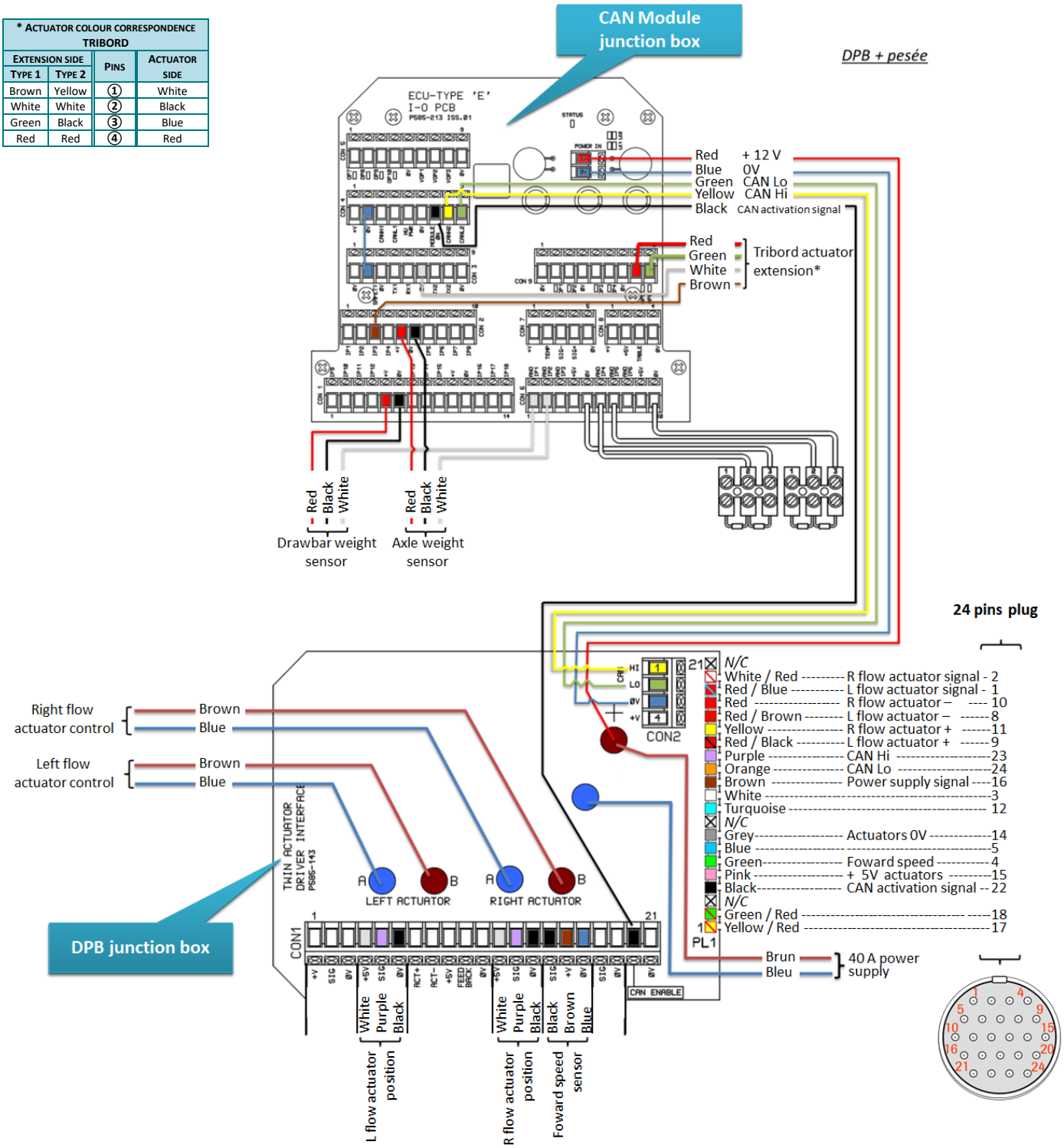


WIRING PRESENTATION:
XT100/130/160 VISION DPB + WEIGHING OPTION

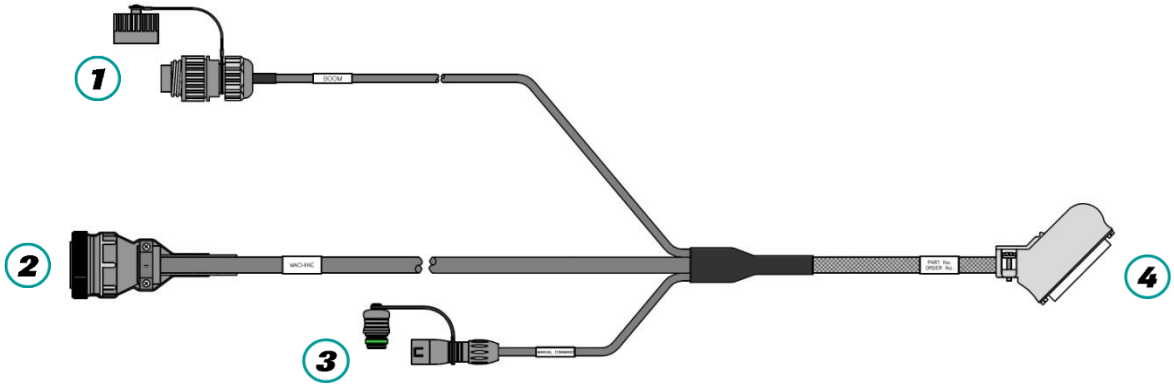
ITEMS	DESCRIPTIONS	PART REFERENCES
1	Vision PSI XT Polyvrac console	*51460040*
2	Console power supply cable	*51000290*
3	XT intermediate wiring	*51000390*
4	40 A battery direct power supply cable	*Cable: 51000270* *40 A fuse 52570120*
5	DPB XT Polyvrac connection unit	*50500440*
6	300 mm gate electric actuators Model: LA 36 -1203000P00AA	*Actuator: 59000643* *Power cable: 51000240* *Signal cable: 51000250*
7		
8	Inductive sensor - Forward speed	*51520150*
9	TRIBORD 3D electric actuator – 50 mm	*29020120*
10	CAN connection unit	*55330050*
11	Weighing extensiometer sensors (2 sensors)	*51400020*

CONNECTION PLAN:
XT100/130/160 VISION DPB + WEIGHING OPTION

* ACTUATOR COLOUR CORRESPONDENCE TRIBORD			
EXTENSION SIDE		PINS	ACTUATOR SIDE
TYPE 1	TYPE 2		
Brown	Yellow	①	White
White	White	②	Black
Green	Black	③	Blue
Red	Red	④	Red

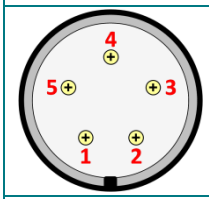


INTERMEDIATE WIRING:
XT100/130/160 VISION DPB + WEIGHING OPTION



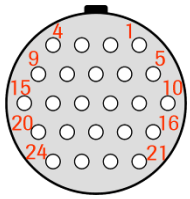
① MALE 7-PIN PLUG NOT USED

PIN	COLOUR	ECONOV FUNCTION	④ 50-WAY CONNECTOR
1	red	Not used	6
2	brown		5
3	blue		4
4	purple		3
5	green		2
6	yellow		1
⏚	black		17



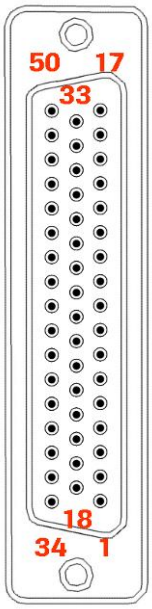
③ MALE 5-PIN PLUG NOT USED

PIN	COLOUR	FUNCTION	④
1	green	Not used	8
2	white		7
3	yellow		24
4	black		48
5	red		39

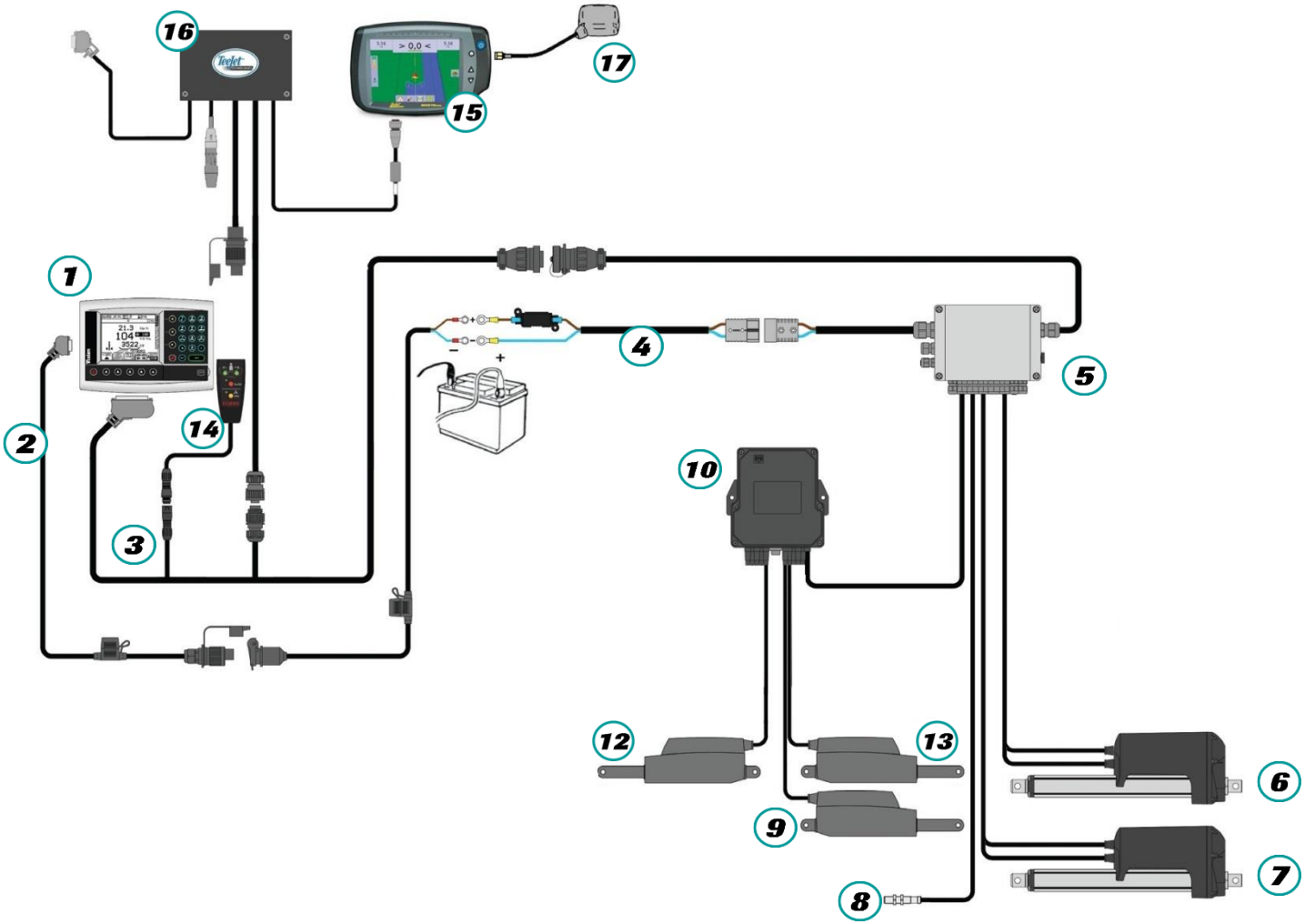


② FEMALE 24-PIN PLUG (SPREADER)

PIN	COLOUR	FUNCTION	④
1	red / blue	Left flow rate actuator signal	25
2	white / red	Right flow rate actuator signal	42
3	white	Not used	20
4	green	Forward movement speed	36
5	blue	Not used	37
6		-	
7		-	
8	red / brown	Left - flow rate actuator	48
9	red / black	Left + flow rate actuator	47
10	red	Right - flow rate actuator	50
11	yellow	Right + flow rate actuator	49
12	Turquoise	Tribord actuator signal	38
13		-	
14	grey	0 V	32
15	pink	+ 5V actuator	28
16	brown	Power supply detection	6
17	yellow / red	Tribord + actuator	17
18	green / red	Tribord - actuator	16
19		-	
20		-	
21		-	
22	black	CAN activation	34
23	purple	CAN Hi	44
24	Orange	CAN Lo	45



WIRING PRESENTATION:
XT 100/130 ECONOV



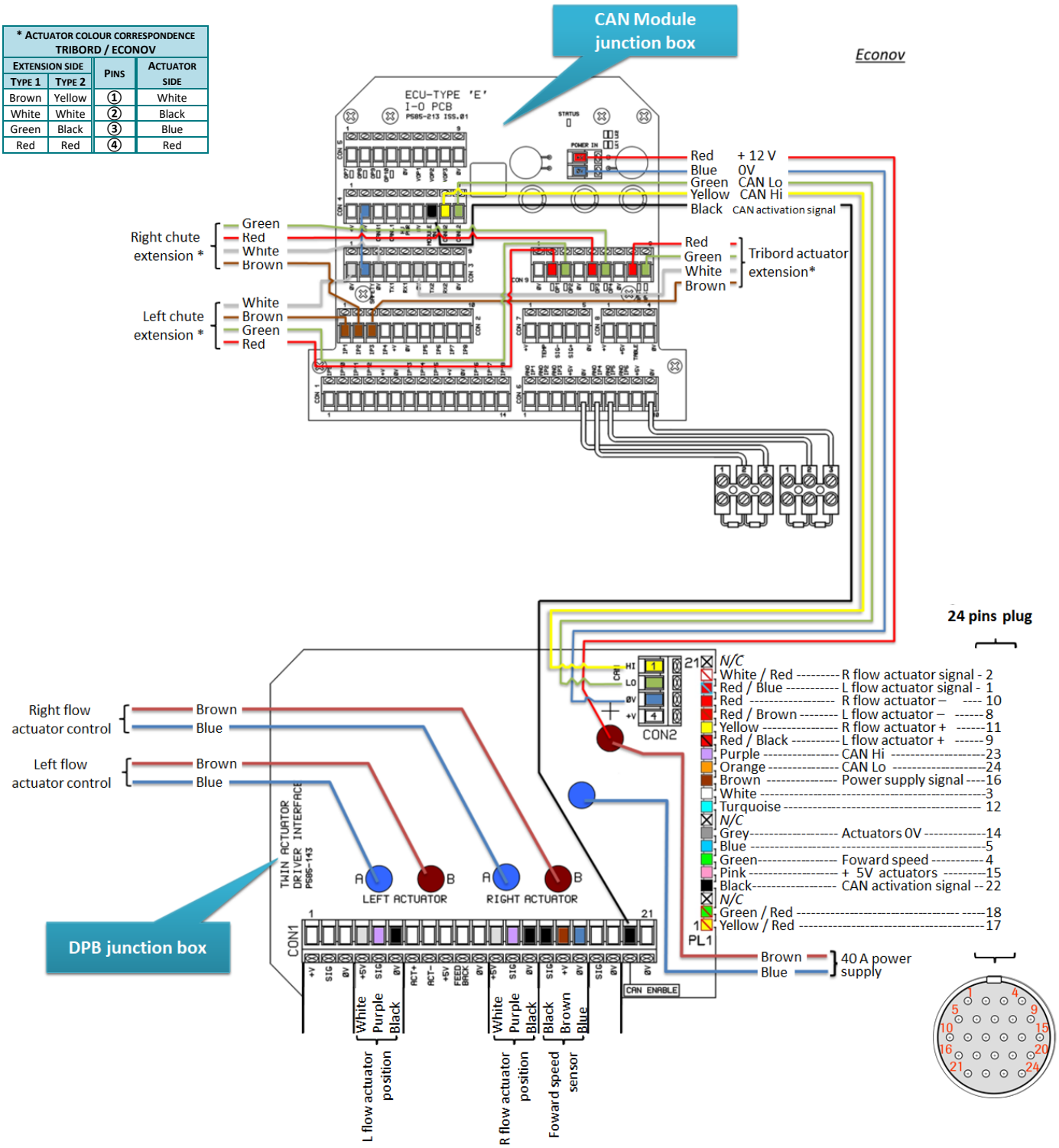
WIRING PRESENTATION:
XT 100/130 ECONOV

ITEM	DESCRIPTIONS	PART REFERENCES
1	Vision PSI XT Polyvrac console	*51460040*
2	Console power supply cable	*51000290*
3	XT intermediate wiring	*51000390*
4	40 A battery direct power supply cable	*Cable: 51000270* *40 A fuse 52570120*
5	DPB XT Polyvrac connection unit	*50500440*
6	250 mm gate electric actuators Model: LA 36 -1202500P00AA	*Actuator: 59000703* *Power cable: 51000240* *Signal cable: 51000250*
7		
8	Inductive sensor - Forward speed	*51520150*
9	TRIBORD 3D electric actuator – 50 mm	*29020140*

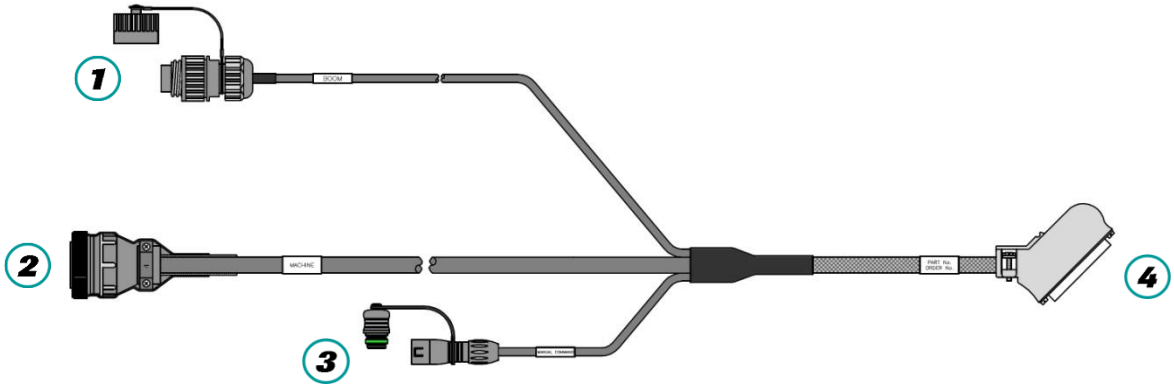
ITEM	DESCRIPTIONS	PART REFERENCES
10	CAN connection unit	*55330050*
12	ECONOV spout actuators – 130 mm	*29020150*
13		
14	ECONOV manual control	*50500460*
15	Matrix 840 GS guide bar	*51460030*
16	Section management (Smartboom)	*54500290*
17	GPS antenna	*50180020*

CONNECTION PLAN:
XT 100/130 ECONOV

* ACTUATOR COLOUR CORRESPONDENCE TRIBORD / ECONOV			
EXTENSION SIDE		PINS	ACTUATOR SIDE
TYPE 1	TYPE 2		
Brown	Yellow	①	White
White	White	②	Black
Green	Black	③	Blue
Red	Red	④	Red

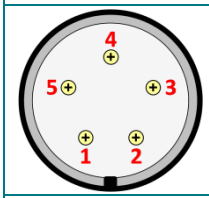


INTERMEDIATE WIRING: XT 100/130 ECONOV



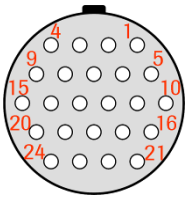
① MALE 7-PIN PLUG (SECTION MANAGEMENT)

PIN	COLOUR	ECONOV FUNCTION	④ 50-WAY CONNECTOR
1	red	L external section	6
2	brown	L central section	5
3	blue	L internal section	4
4	purple	R internal section	3
5	green	R central section	2
6	yellow	R external section	1
⏚	black	0 V	17



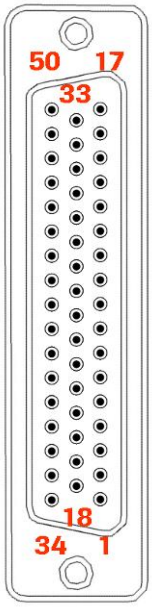
③ MALE 5-PIN PLUG (MANUAL CONTROL)

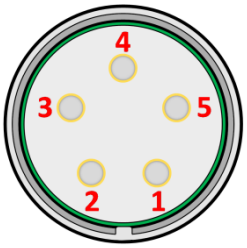
PIN	COLOUR	FUNCTION	④
1	green	Left hatch control	8
2	white	Right hatch control	7
3	yellow	Manual / Auto control	24
4	black	0 V	48
5	red	+ 12 V	39



② FEMALE 24-PIN PLUG (Spreader)

PIN	COLOUR	FUNCTION	④
1	red / blue	Left flow rate actuator signal	25
2	white / red	Right flow rate actuator signal	42
3	white	Not used	20
4	green	Forward movement speed	36
5	blue	Not used	37
6		-	
7		-	
8	red / brown	Left - flow rate actuator	48
9	red / black	Left + flow rate actuator	47
10	red	Right - flow rate actuator	50
11	yellow	Right + flow rate actuator	49
12	Turquoise	Tribord actuator signal	38
13		-	
14	grey	0 V	32
15	pink	+ 5V actuator	28
16	brown	Power supply detection	6
17	yellow / red	Tribord + actuator	17
18	green / red	Tribord - actuator	16
19		-	
20		-	
21		-	
22	black	CAN activation	34
23	purple	CAN Hi	44
24	Orange	CAN Lo	45





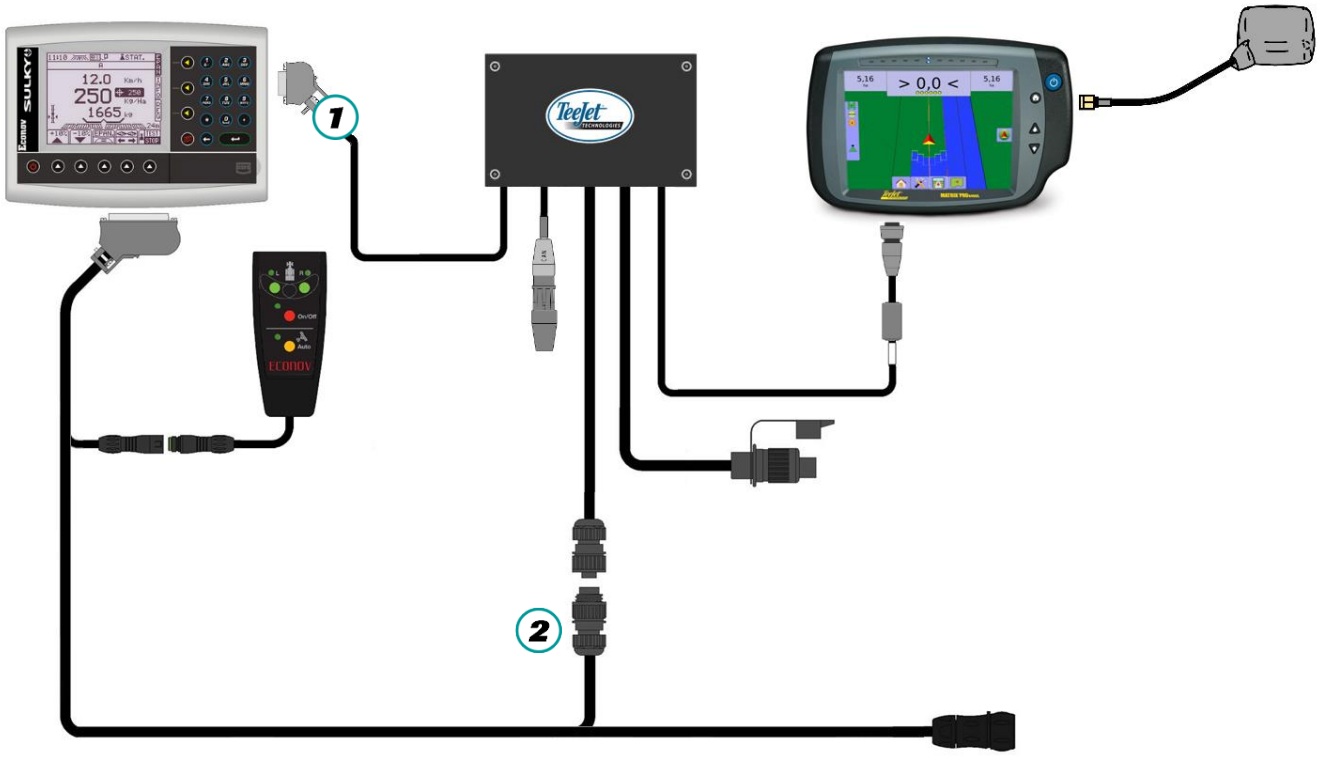
FEMALE 5-PIN PLUG

PIN	COLOUR	FUNCTION
1	Yellow	Left hatch control
2	Green	Right hatch control
3	Red	Manual / Auto control
4	White	0 V
5	Brown	+ 12 V

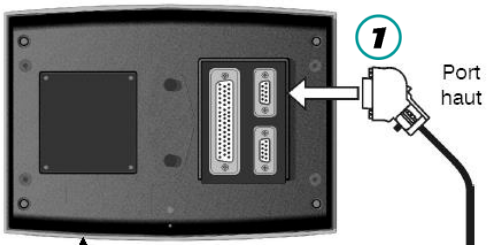
Operation:

The command sends the CAN VISION console a 0V signal to open each hatch manually.

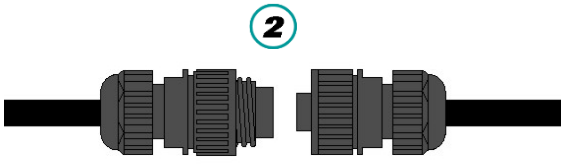
When auto mode is activated, the command sends 0V to terminal No. 3. In this case, the hatch command order will come from the section disconnection.



1- The forward movement speed and GPS position information is sent from the Matrix Pro 840 GS guide bar by the RS 232 plug present on the Smart boom ①. The port at the top of the Vision console is used. The Vision console must be configured.



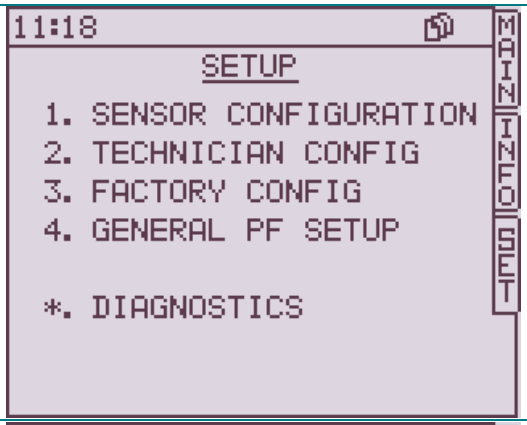
2- The six spreading layer sections (Econov) are managed automatically by the 7-pin plug on the Smartboom connected to the intermediate wiring ②.
The guide bar must be configured, refer to the user manual.



3- Configuring the VISION II console

⇨ Use the key to access the **SETUP** menu.

⇨ Then select **4 - General PF setup** with the number pad.



⇨ Select **6 - Ports setup** with the number pad.

⇨ On the upper Port, select with the keys **"GPS Only"** and validate with .

⇨ Press **ESC**.

⇨ In the **General PF setup** menu, select **5- GPS Baudrate** with the number pad

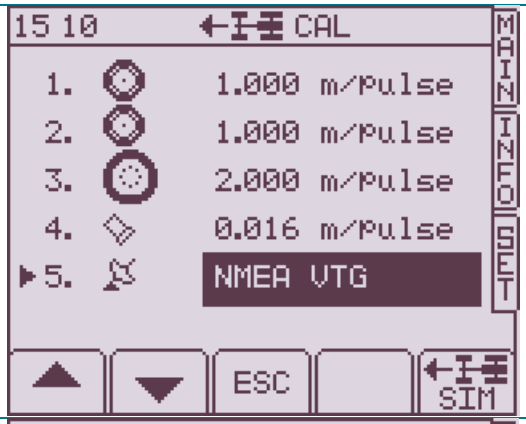
⇨ Select **19200** with and validate with

4- Validate the forward movement speed

⇨ In the **REG** menu select 

⇨ Select  with the  keys and validate with  .

There is no speed calibration (over 100m) to be made. The speed is automatically correct.

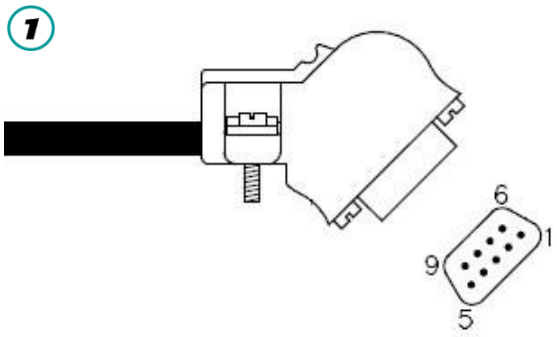


5- The GPS reception may be checked:

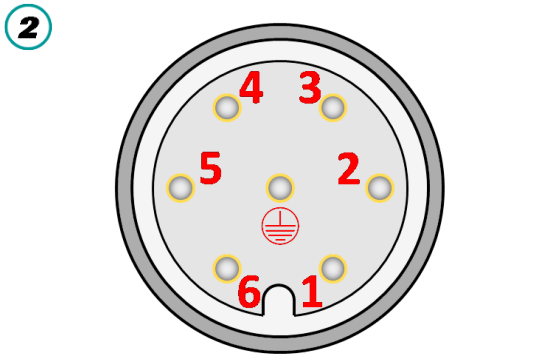
In the **INFO** menu, press  then 

Smart boom connection plan:

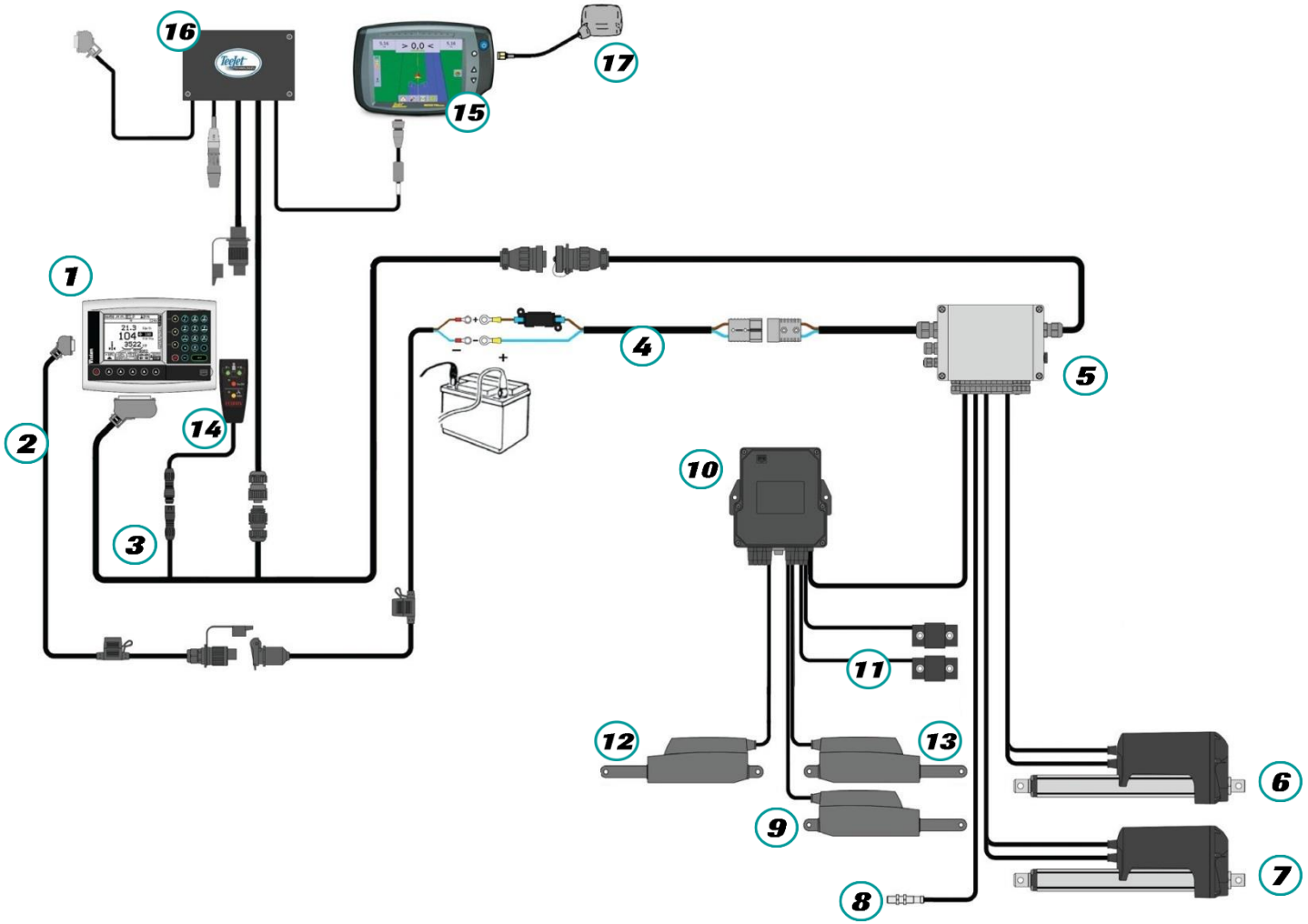
SMART BOOM RS 232 PLUG		
PIN	**COLOUR**	**FUNCTION**
3	Brown	TX
4	Green	RX *(NMEA signal)*
8	White	0 V



SMART BOOM 7-PIN PLUG		
PIN	**COLOUR**	**ECONOV FUNCTION**
1	Pink	L external section
2	Blue	L central section
3	White	L internal section
4	Brown	R internal section
5	Green	R central section
6	Yellow	R external section
⏚	Grey	0 V



WIRING PRESENTATION:
XT 100/130 ECONOV+ WEIGHING OPTION



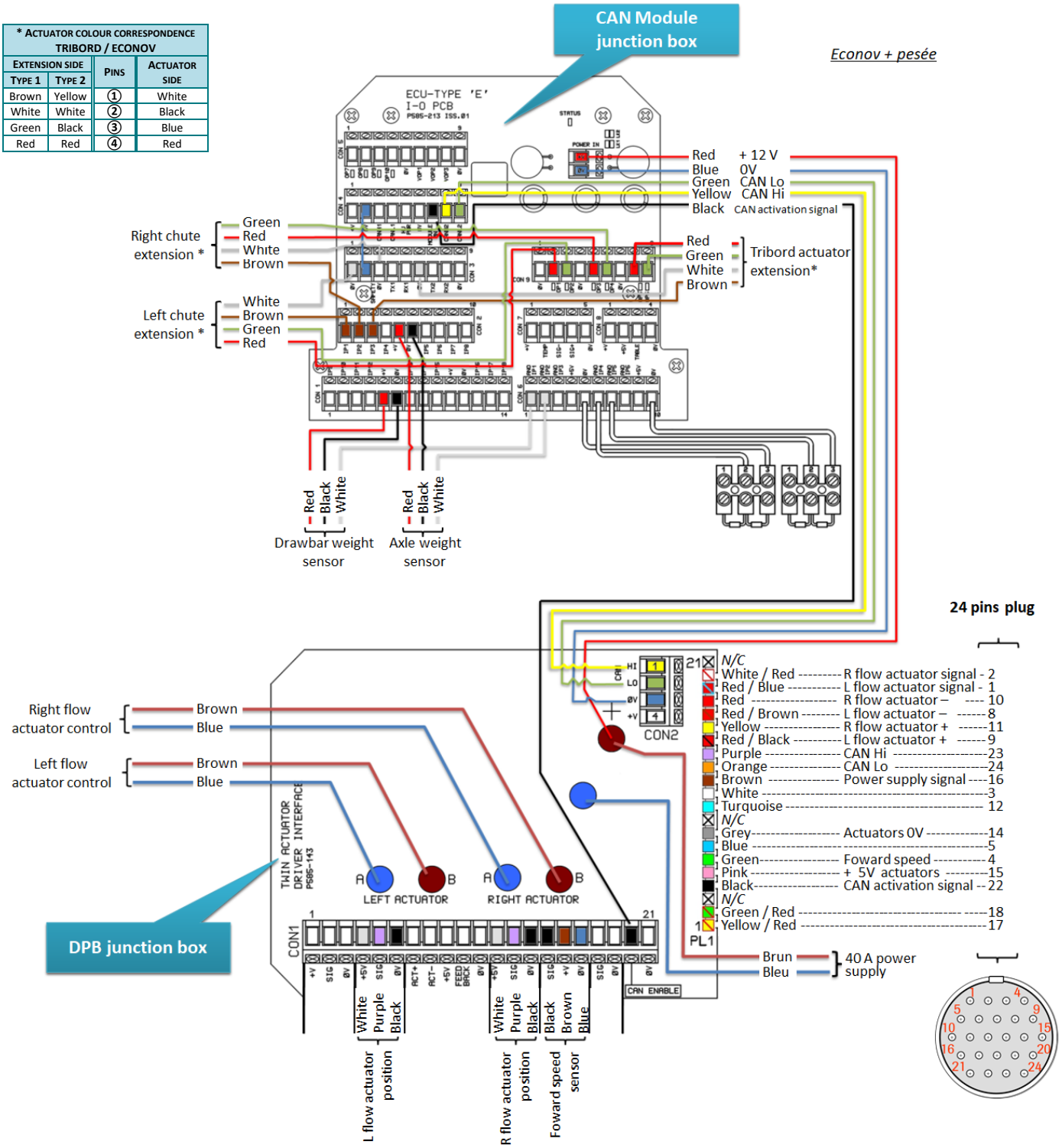
WIRING PRESENTATION:
XT 100/130 ECONOV+ WEIGHING OPTION

ITEM	DESCRIPTIONS	PART REFERENCES
1	Vision PSI XT Polyvrac console	*51460040*
2	Console power supply cable	*51000290*
3	XT intermediate wiring	*51000390*
4	40 A battery direct power supply cable	*Cable: 51000270* *40 A fuse 52570120*
5	DPB XT Polyvrac connection unit	*50500440*
6	250 mm gate electric actuators Model: LA 36 -1202500P00AA	*Actuator: 59000703* *Power cable: 51000240* *Signal cable: 51000250*
7		
8	Inductive sensor - Forward speed	*51520150*
9	TRIBORD 3D electric actuator – 50 mm	*29020140*

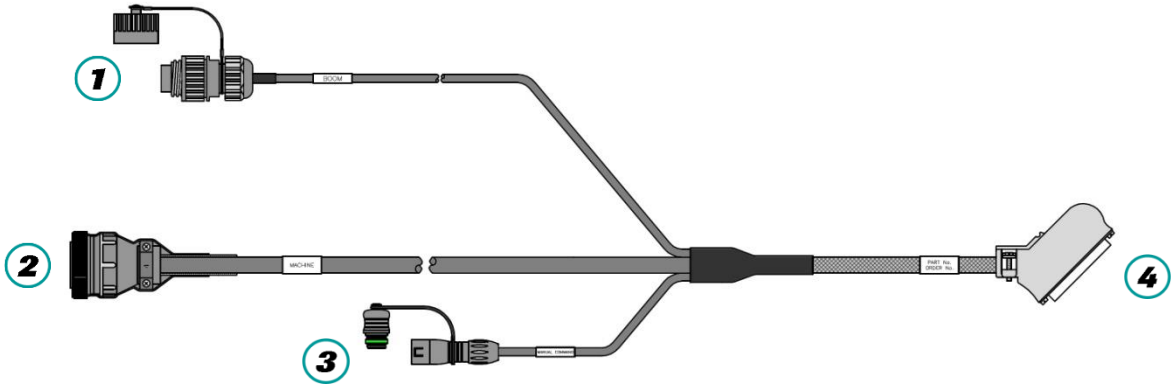
ITEM	DESCRIPTIONS	PART REFERENCES
10	CAN connection unit	*55330050*
11	Weighing extensiometer sensors (2 sensors)	*51400020*
12	ECONOV spout actuators – 130 mm	*29020150*
13		
14	ECONOV manual control	*50500460*
15	Matrix 840 GS guide bar	*51460030*
16	Section management (Smartboom)	*54500290*
17	GPS antenna	*50180020*

CONNECTION PLAN:
XT 100/130 ECONOV+ WEIGHING OPTION

* ACTUATOR COLOUR CORRESPONDENCE TRIBORD / ECONOV			
EXTENSION SIDE		PINS	ACTUATOR SIDE
TYPE 1	TYPE 2		
Brown	Yellow	①	White
White	White	②	Black
Green	Black	③	Blue
Red	Red	④	Red

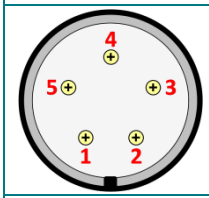


INTERMEDIATE WIRING:
XT 100/130 ECONOV+ WEIGHING OPTION



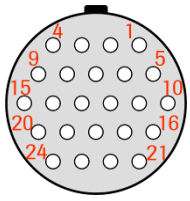
① MALE 7-PIN PLUG (SECTION MANAGEMENT)

PIN	COLOUR	ECONOV FUNCTION	④ 50-WAY CONNECTOR
1	red	L external section	6
2	brown	L central section	5
3	blue	L internal section	4
4	purple	R internal section	3
5	green	R central section	2
6	yellow	R external section	1
⏚	black	0 V	17



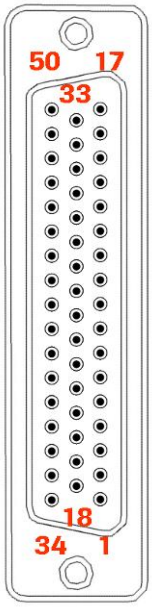
③ MALE 5-PIN PLUG (MANUAL CONTROL)

PIN	COLOUR	FUNCTION	④
1	green	Left hatch control	8
2	white	Right hatch control	7
3	yellow	Manual / Auto control	24
4	black	0 V	48
5	red	+ 12 V	39

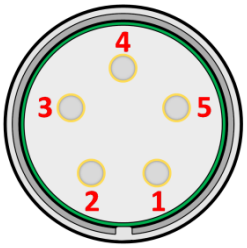


② FEMALE 24-PIN PLUG (SPREADER)

PIN	COLOUR	FUNCTION	④
1	red / blue	Left flow rate actuator signal	25
2	white / red	Right flow rate actuator signal	42
3	white	Not used	20
4	green	Forward movement speed	36
5	blue	Not used	37
6		-	
7		-	
8	red / brown	Left - flow rate actuator	48
9	red / black	Left + flow rate actuator	47
10	red	Right - flow rate actuator	50
11	yellow	Right + flow rate actuator	49
12	Turquoise	Tribord actuator signal	38
13		-	
14	grey	0 V	32
15	pink	+ 5V actuator	28
16	brown	Power supply detection	6
17	yellow / red	Tribord + actuator	17
18	green / red	Tribord - actuator	16
19		-	
20		-	
21		-	
22	black	CAN activation	34
23	purple	CAN Hi	44
24	Orange	CAN Lo	45



MANUAL CONTROL: XT ECONOV



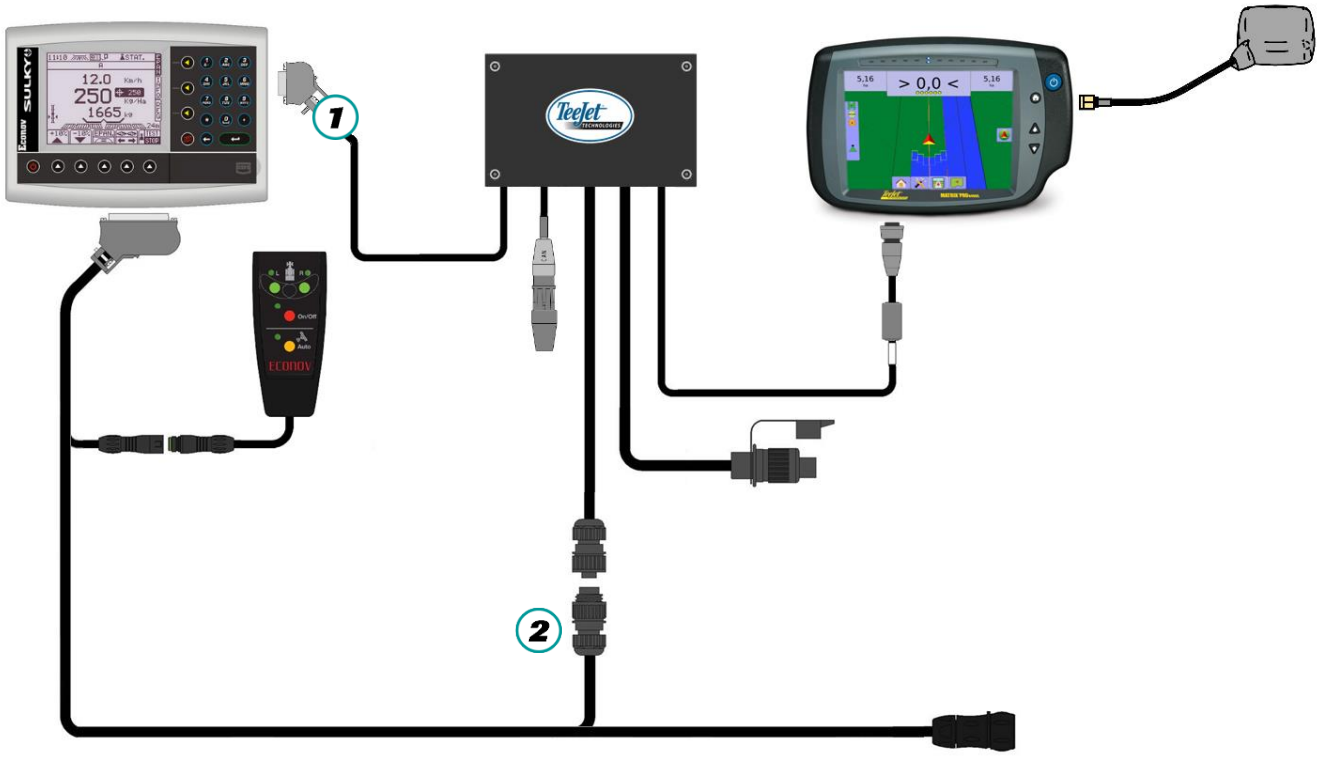
FEMALE 5-PIN PLUG

PIN	COLOUR	FUNCTION
1	Yellow	Left hatch control
2	Green	Right hatch control
3	Red	Manual / Auto control
4	White	0 V
5	Brown	+ 12 V

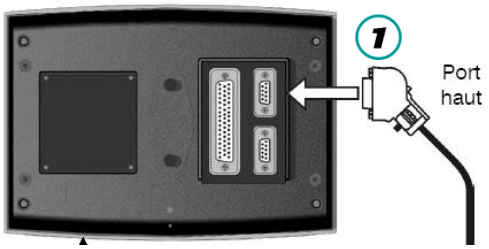
Operation:

The command sends the CAN VISION console a 0V signal to open each hatch manually.

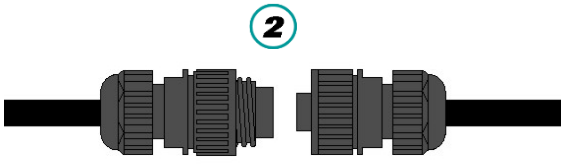
When auto mode is activated, the command sends 0V to terminal No. 3. In this case, the hatch command order will come from the section disconnection.



1- The forward movement speed and GPS position information is sent from the Matrix Pro 840 GS guide bar by the RS 232 plug present on the Smart boom ①. The port at the top of the Vision console is used. The Vision console must be configured.



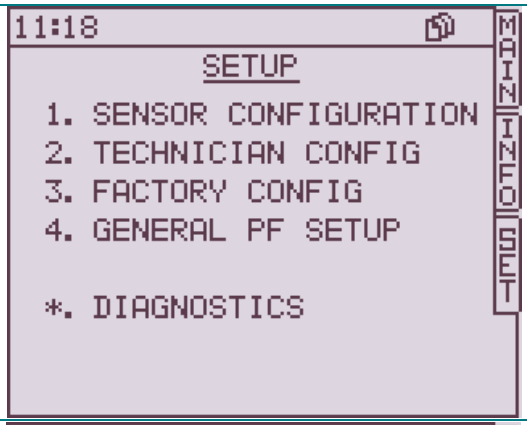
2- The six spreading layer sections (Econov) are managed automatically by the 7-pin plug on the Smartboom connected to the intermediate wiring ②.
The guide bar must be configured, refer to the user manual.



3- Configuring the VISION II console

⇨ Use the key to access the **SETUP** menu.

⇨ Then select **4 - General PF setup** with the number pad.



⇨ Select **6 - Ports setup** with the number pad.

⇨ On the upper Port, select with the keys **"GPS Only"** and validate with .

⇨ Press **ESC**.

⇨ In the **General PF setup** menu, select **5- GPS Baudrate** with the number pad

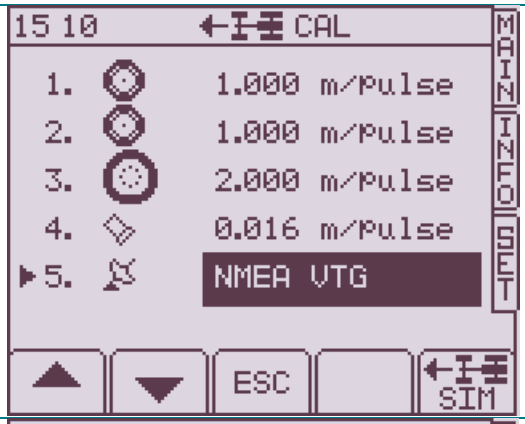
⇨ Select **19200** with and validate with

4- Validate the forward movement speed

⇨ In the **REG** menu select 

⇨ Select ▸5. NMEA VTG with the  keys and validate with  .

There is no speed calibration (over 100m) to be made. The speed is automatically correct.

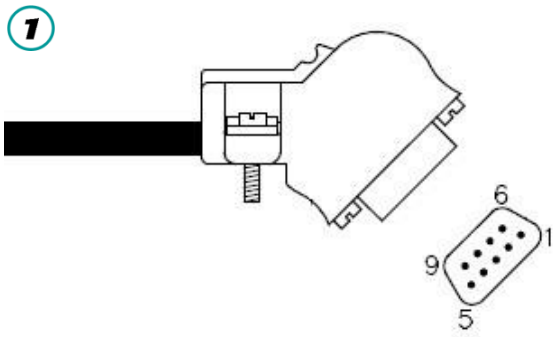


5- The GPS reception may be checked:

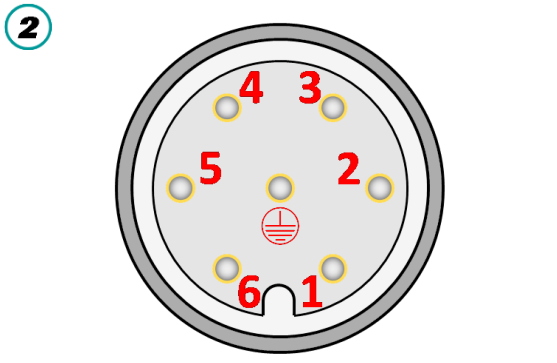
In the **INFO** menu, press  then 

Smart boom connection plan:

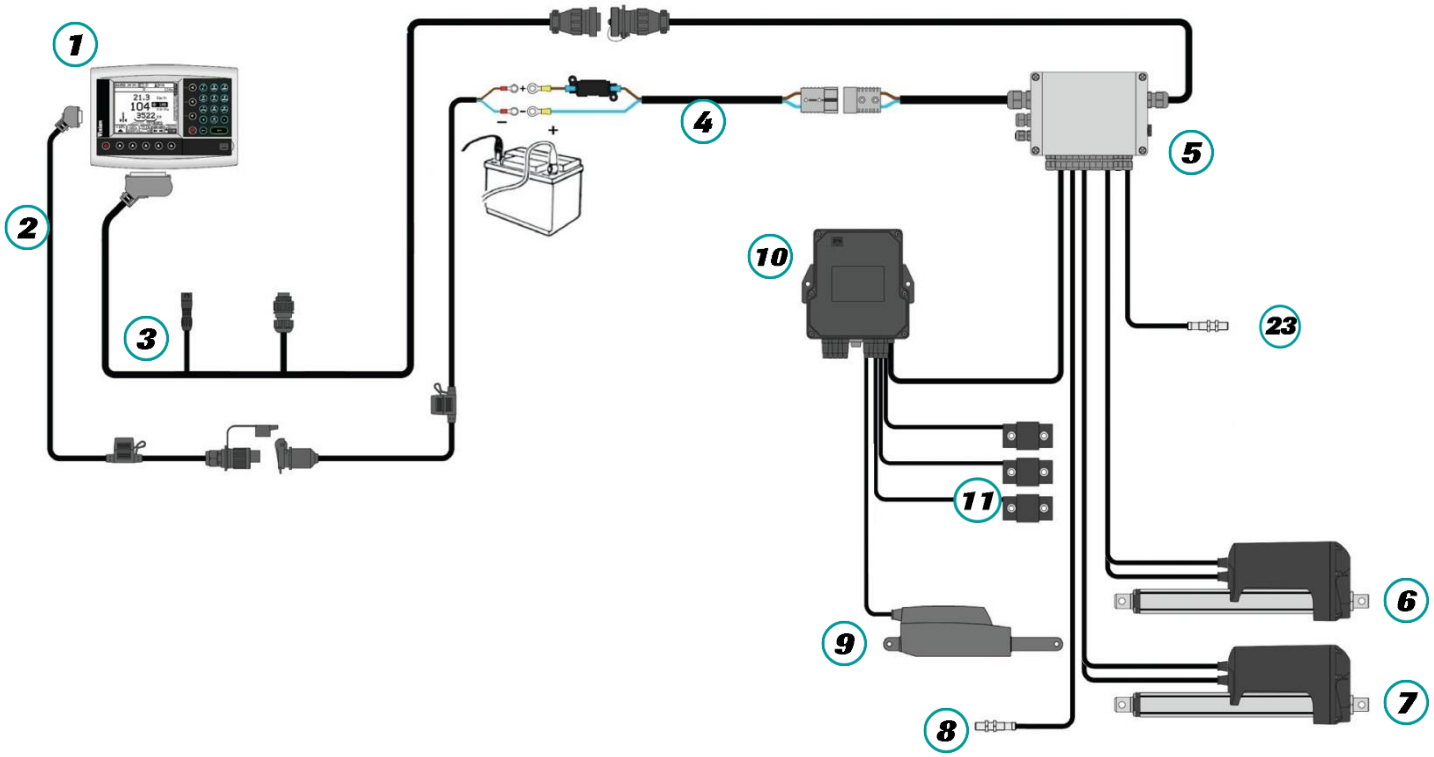
SMART BOOM RS 232 PLUG		
PIN	**COLOUR**	**FUNCTION**
3	Brown	TX
4	Green	RX *(NMEA signal)*
8	White	0 V



SMART BOOM 7-PIN PLUG		
PIN	**COLOUR**	**ECONOV FUNCTION**
1	Pink	L external section
2	Blue	L central section
3	White	L internal section
4	Brown	R internal section
5	Green	R central section
6	Yellow	R external section
⏚	Grey	0 V



WIRING PRESENTATION:
XT 160 H / 210 H / 240 H DS2

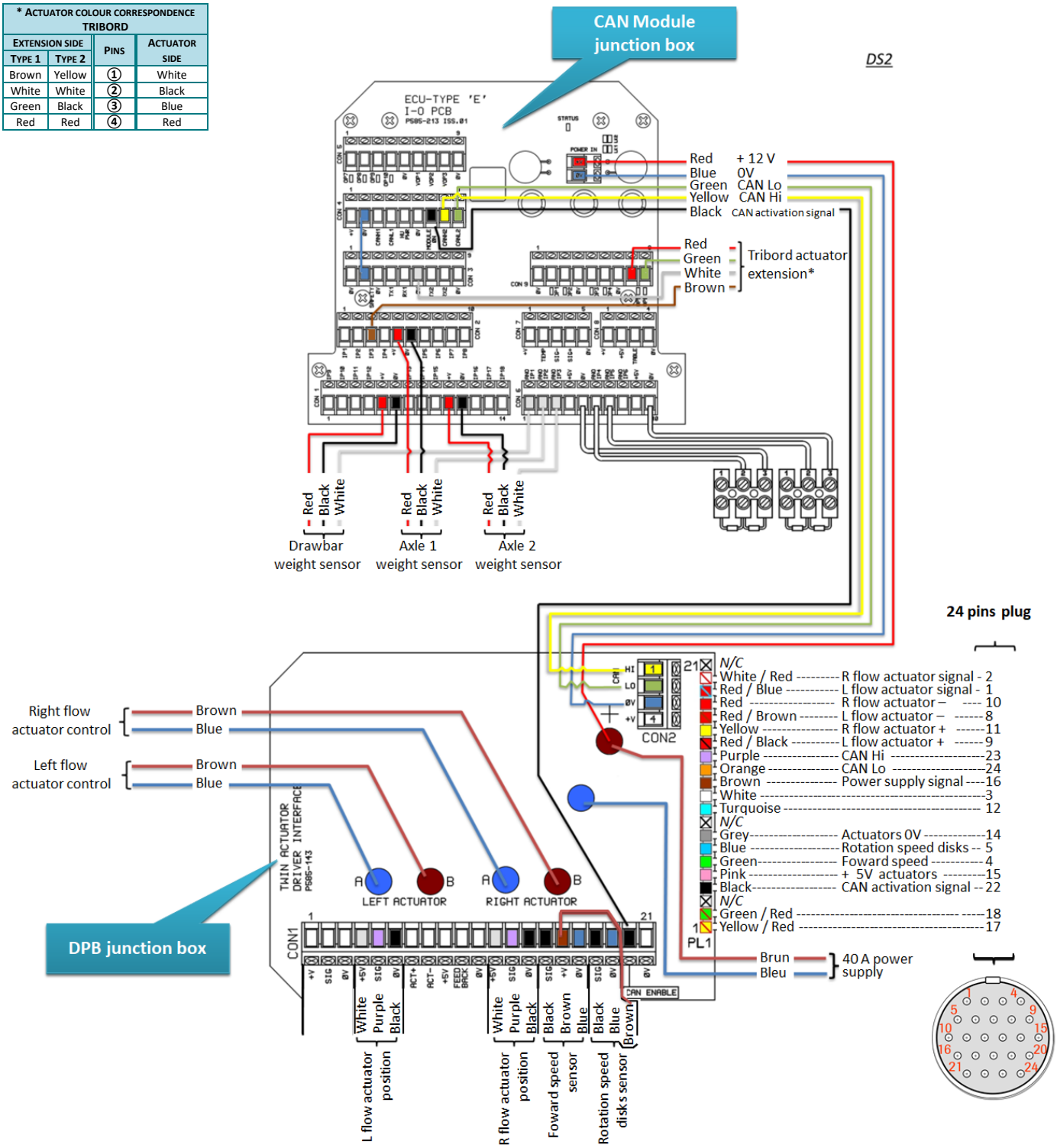


WIRING PRESENTATION:
XT 160 H / 210 H / 240 H DS2

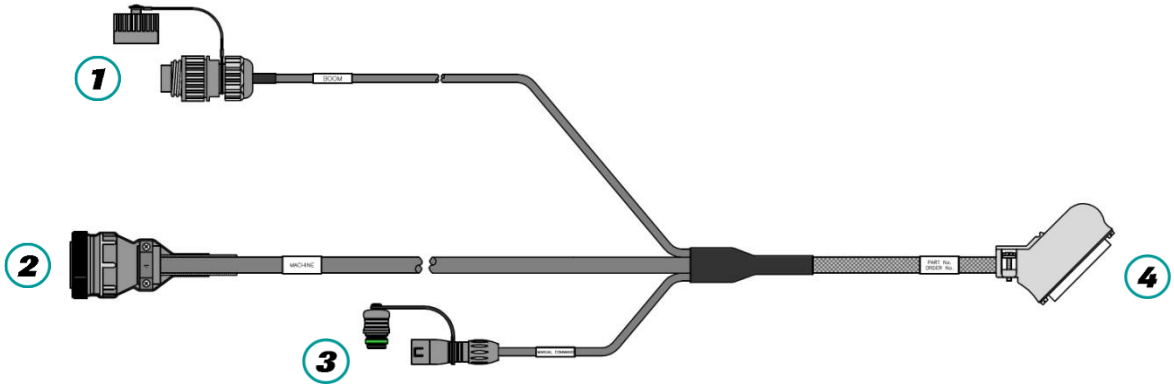
ITEMS	DESCRIPTIONS	PART REFERENCES
1	Vision PSI XT Polyvrac console	*51460040*
2	Console power supply cable	*51000290*
3	XT intermediate wiring	*51000390*
4	40 A battery direct power supply cable	*Cable: 51000270* *40 A fuse 52570120*
5	DPB XT Polyvrac connection unit	*50500440*
6	300 mm gate electric actuators Model: LA 36 -1203000P00AA	*Actuator: 59000643* *Power cable: 51000240* *Signal cable: 51000250*
7		
8	Inductive sensor - Forward speed	*51520150*
9	TRIBORD 3D electric actuator – 50 mm	*29020120*
10	CAN connection unit	*55330050*
11	Weighing extensiometer sensors (2 sensors on single axle / 3 sensors on double axle)	*51400020*
23	Disk rotation rate inductive sensor	*51520150*

CONNECTION PLAN:
XT 160H / 210H / 240H DS2

* ACTUATOR COLOUR CORRESPONDENCE TRIBORD			
EXTENSION SIDE		PINS	ACTUATOR SIDE
TYPE 1	TYPE 2		
Brown	Yellow	①	White
White	White	②	Black
Green	Black	③	Blue
Red	Red	④	Red

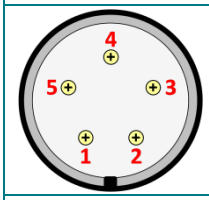


INTERMEDIATE WIRING:
XT 160H / 210H / 240H DS2



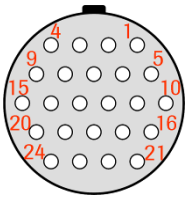
① MALE 7-PIN PLUG NOT USED

PIN	COLOUR	ECONOV FUNCTION	④ 50-WAY CONNECTOR
1	red	Not used	6
2	brown		5
3	blue		4
4	purple		3
5	green		2
6	yellow		1
⏚	black		17



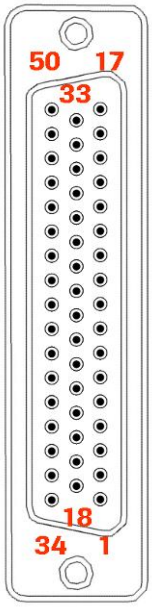
③ MALE 5-PIN PLUG NOT USED

PIN	COLOUR	FUNCTION	④
1	green	Not used	8
2	white		7
3	yellow		24
4	black		48
5	red		39

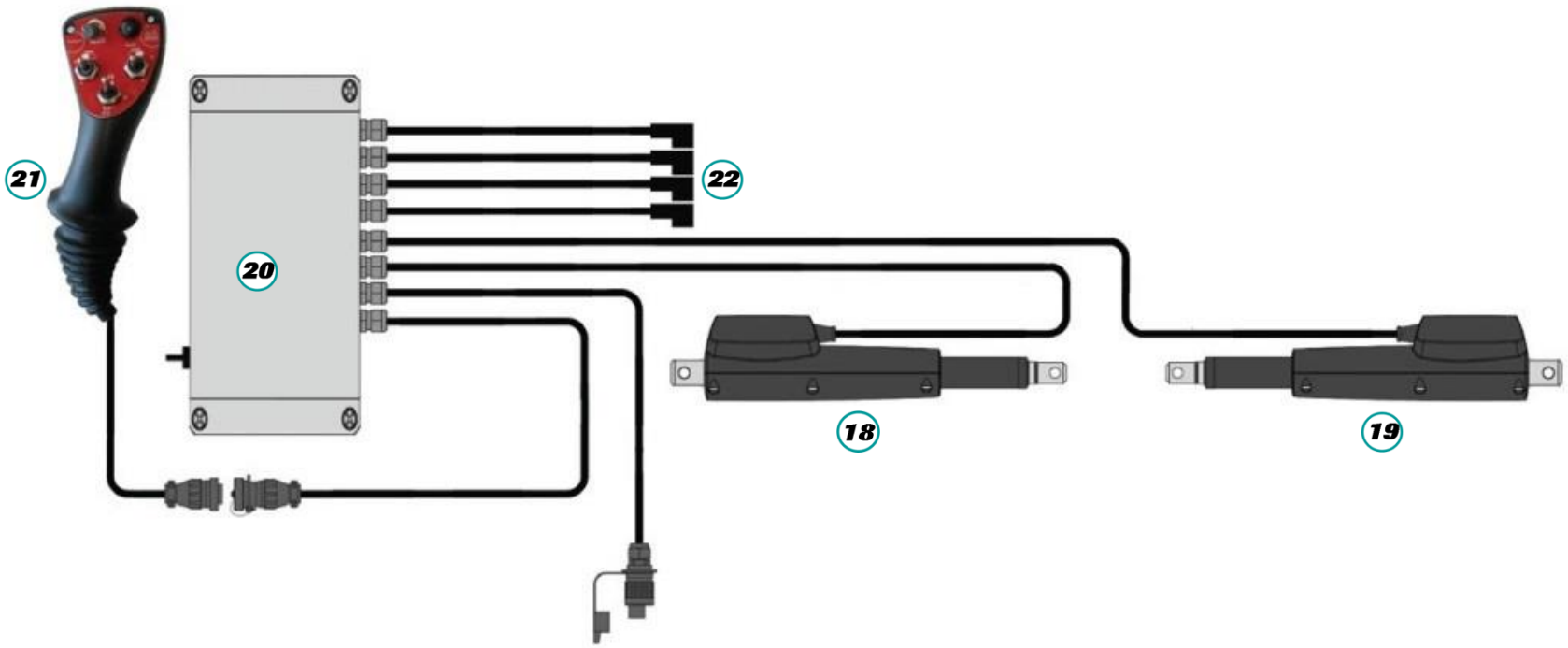


② FEMALE 24-PIN PLUG (SPREADER)

PIN	COLOUR	FUNCTION	④
1	red / blue	Left flow rate actuator signal	25
2	white / red	Right flow rate actuator signal	42
3	white	Not used	20
4	green	Forward movement speed	36
5	blue	Spreading disk rate	37
6		-	
7		-	
8	red / brown	Left - flow rate actuator	48
9	red / black	Left + flow rate actuator	47
10	red	Right - flow rate actuator	50
11	yellow	Right + flow rate actuator	49
12	Turquoise	Tribord actuator signal	38
13		-	
14	grey	0 V	32
15	pink	+ 5V actuator	28
16	brown	Power supply detection	6
17	yellow / red	Tribord + actuator	17
18	green / red	Tribord - actuator	16
19		-	
20		-	
21		-	
22	black	CAN activation	34
23	purple	CAN Hi	44
24	Orange	CAN Lo	45

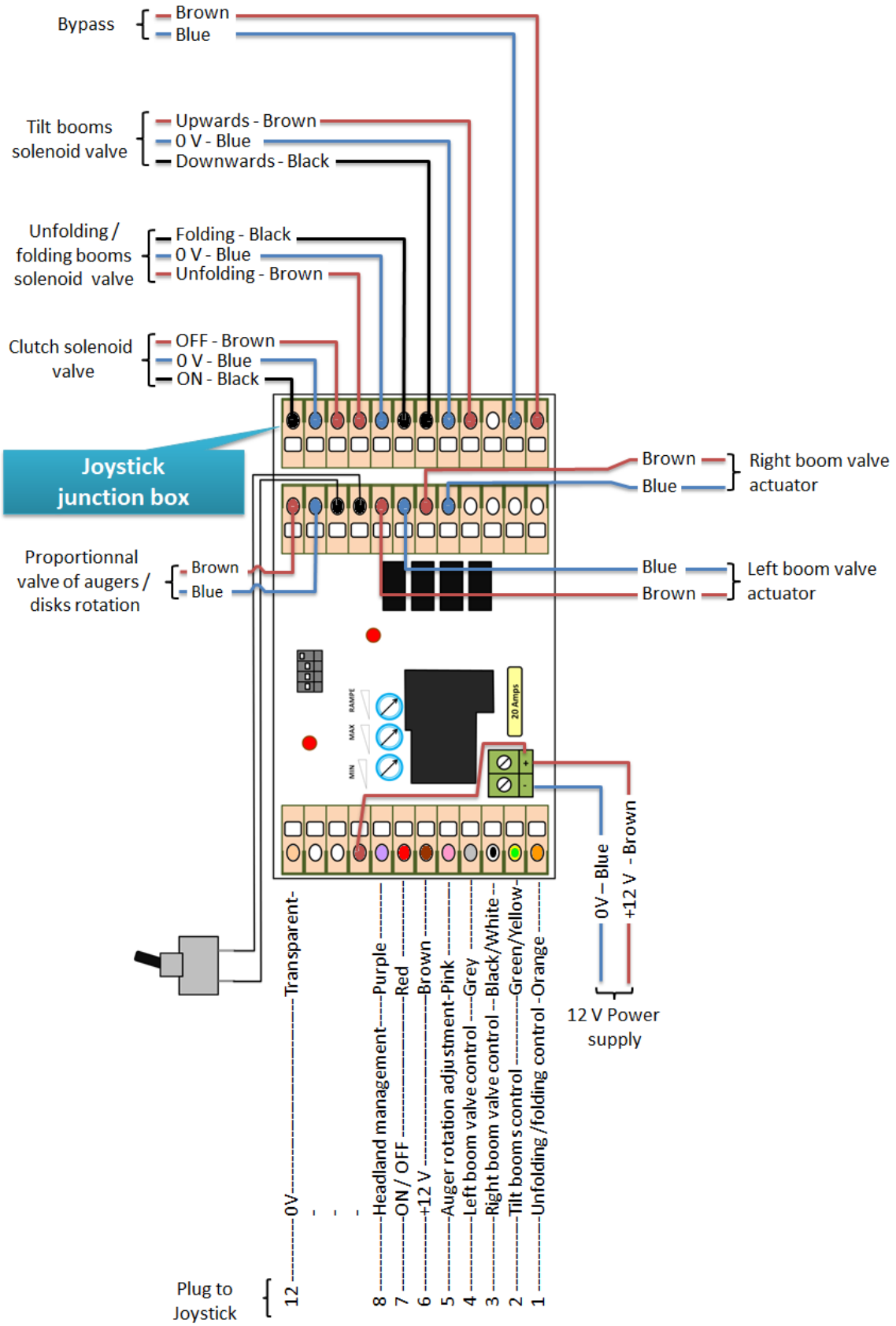


WIRING PRESENTATION:
XT 160/210/240 H RD1



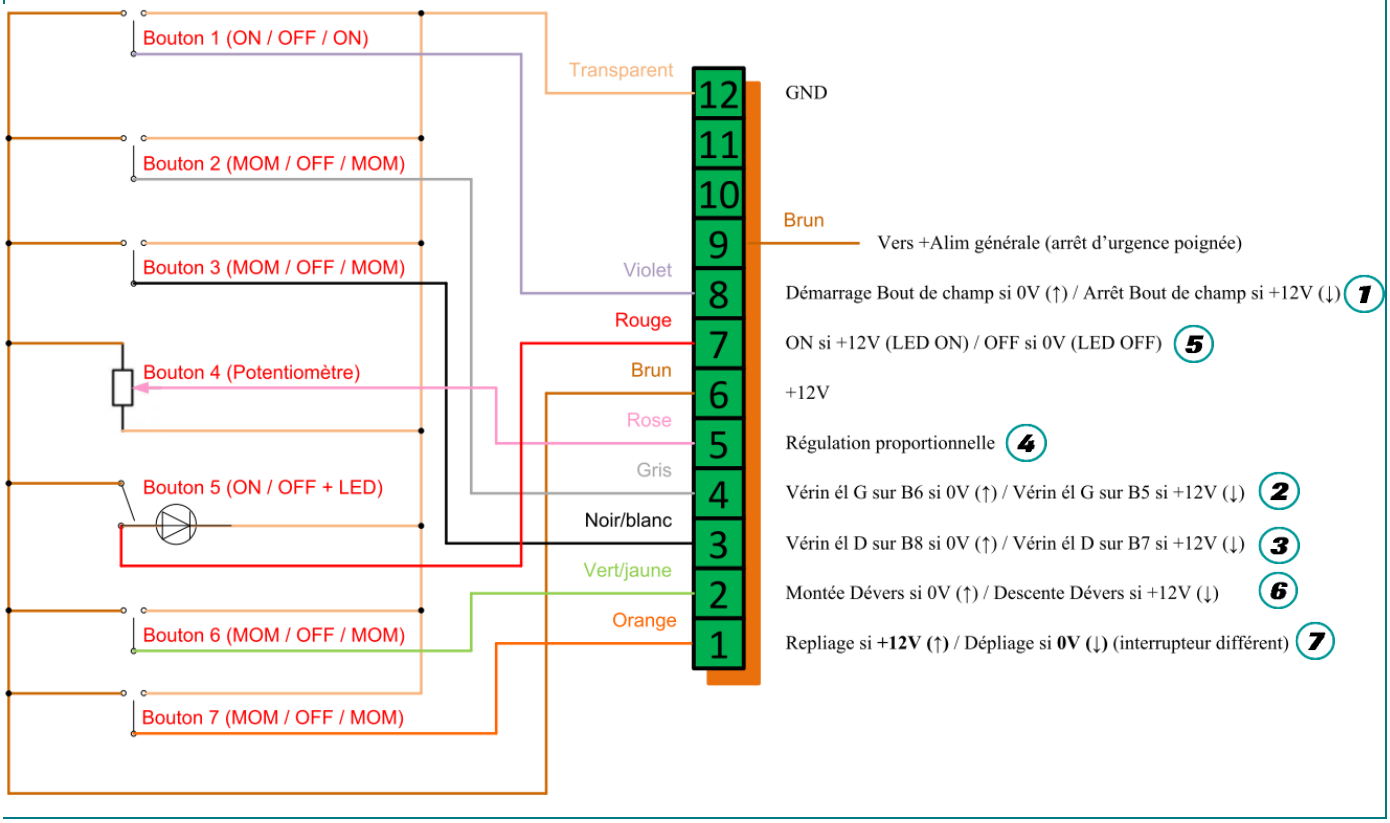
ITEMS	DESCRIPTIONS	PART REFERENCES
18	Boom valve electric actuator without sensor Model: LA 3510A0+0**A**100A20	*Actuator: 59000630* *Power cable: 51000300*
19		
20	Ergonomic handle connection unit	*50500500*
21	Ergonomic handle	*56520120*
22	Solenoid valve connectors to hydraulic unit	

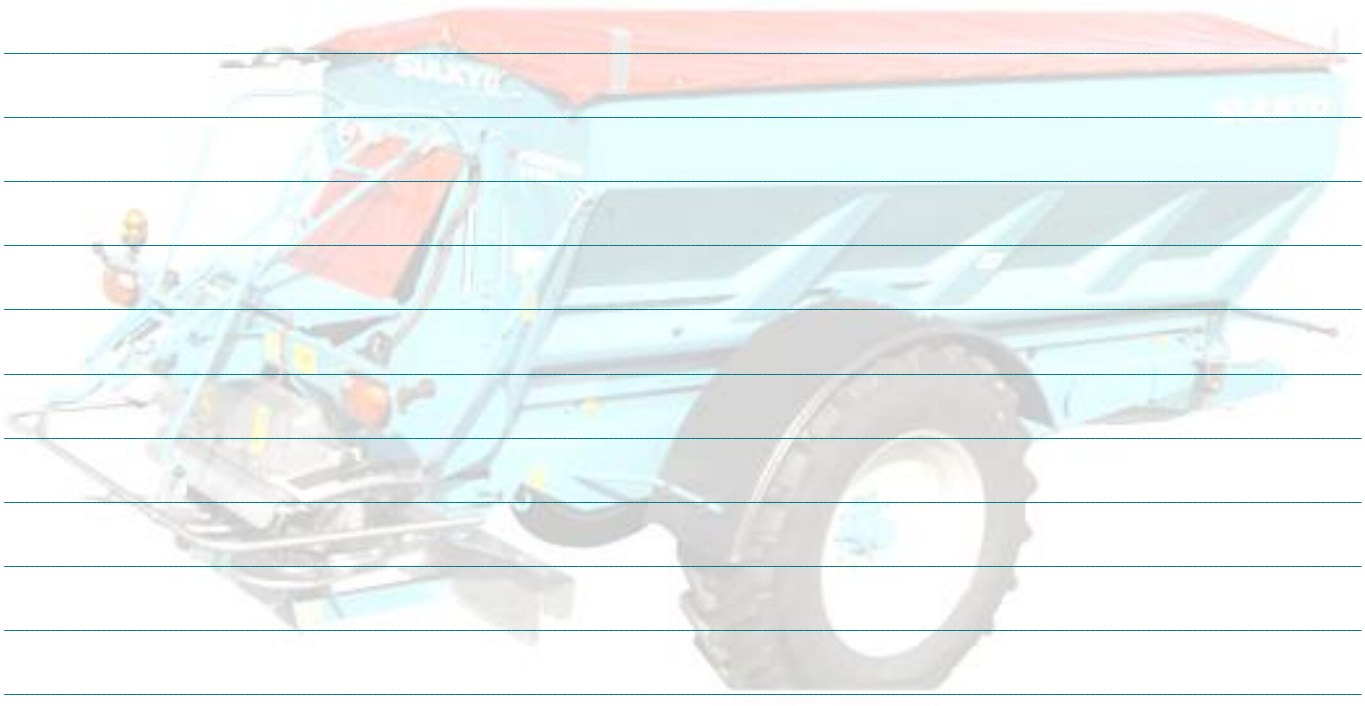
CONNECTION PLAN:
XT 160H/210H/240H RD1



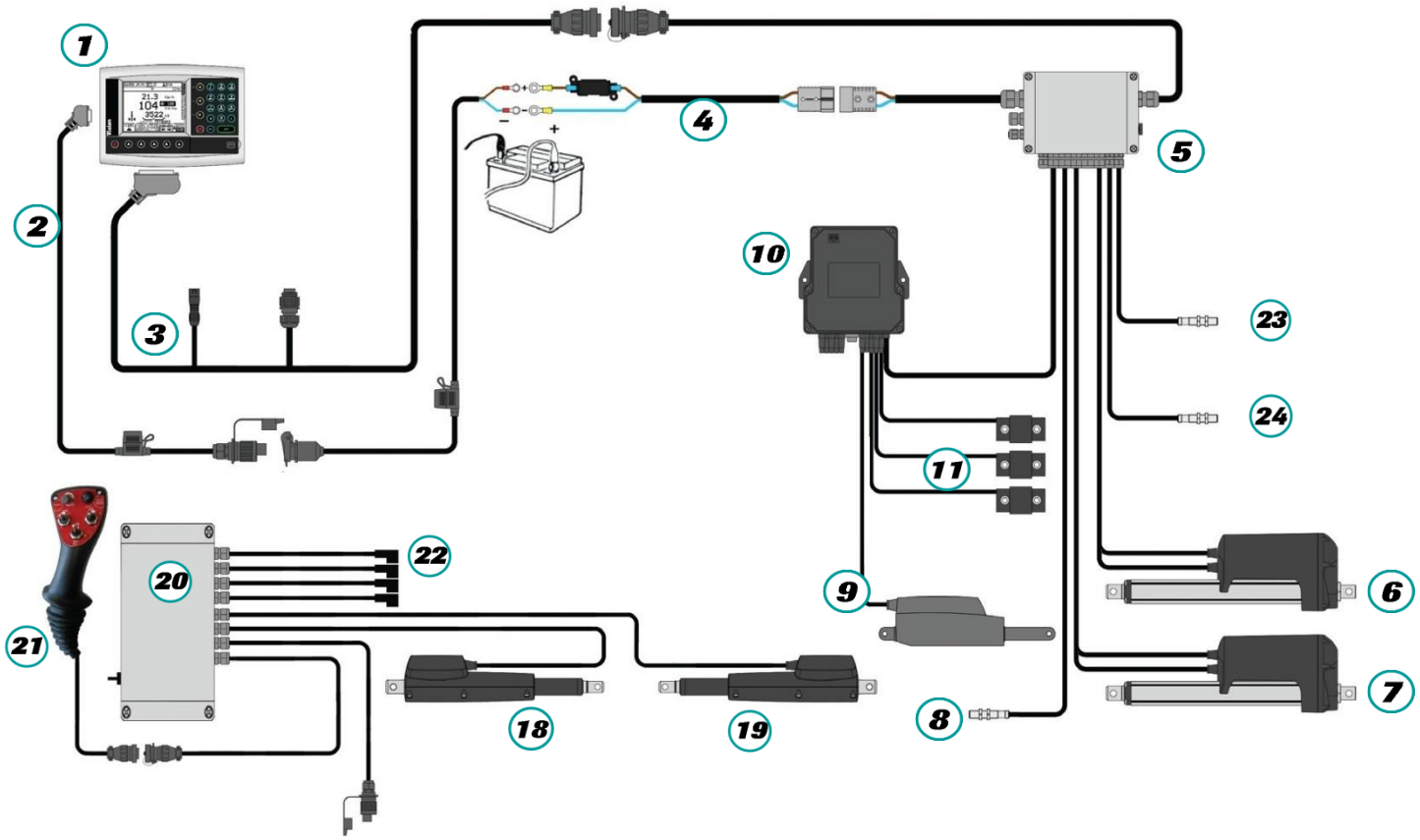
CONNECTION PLAN:
JOYSTICK - RD1

Handle cabling:





WIRING PRESENTATION:
XT 160/210/240 H RD2

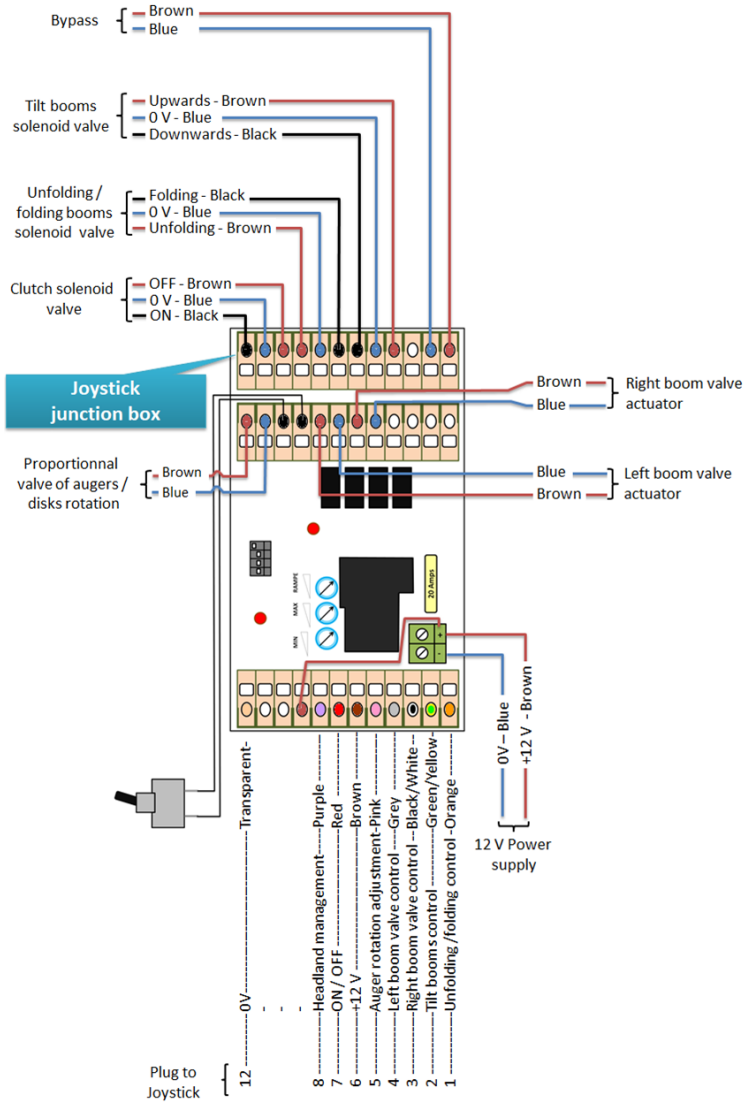


WIRING PRESENTATION:
XT 160/210/240 H RD2

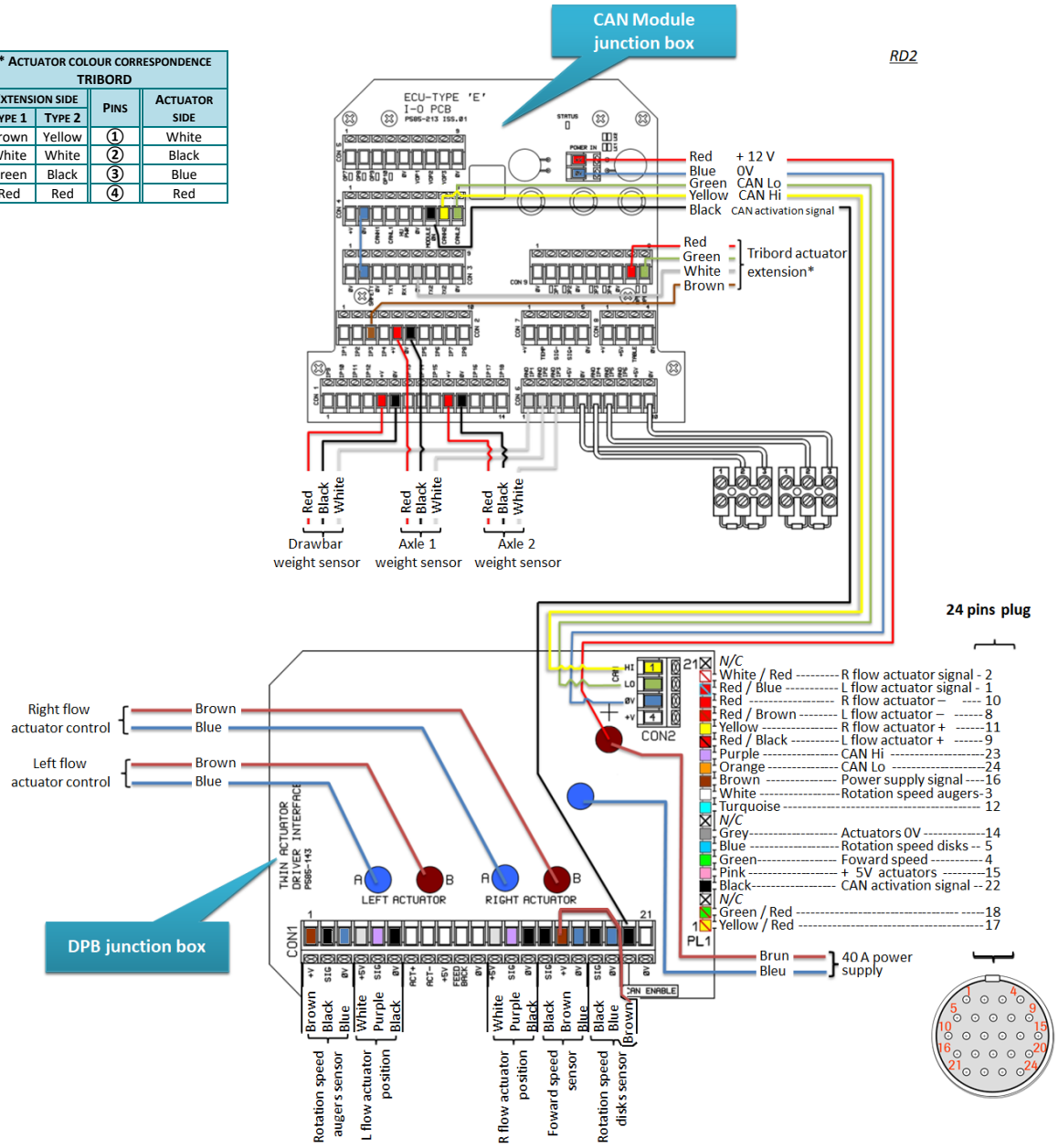
ITEM	DESCRIPTIONS	PART REFERENCES
1	Vision PSI XT Polyvrac console	*51460040*
2	Console power supply cable	*51000290*
3	XT intermediate wiring	*51000390*
4	40 A battery direct power supply cable	*Cable: 51000270* *40 A fuse 52570120*
5	DPB XT Polyvrac connection unit	*50500440*
6	300 mm gate electric actuators Model: LA 36 -1203000P00AA	*Actuator: 59000643* *Power cable: 51000240* *Signal cable: 51000250*
7		
8	Inductive sensor - Forward speed	*51520150*
9	TRIBORD 3D electric actuator – 50 mm	*29020120*

ITEM	DESCRIPTIONS	PART REFERENCES
10	CAN connection unit	*55330050*
11	Weighing extensiometer sensors (2 sensors on single axle / 3 sensors on double axle)	*51400020*
18	Boom valve electric actuator without sensor Model: LA 3510A0+0**0**100A20	*Actuator: 59000630* *Power cable: 51000300*
19		
20	Ergonomic handle connection unit	*50500500*
21	Ergonomic handle	*56520120*
22	Solenoid valve connectors to hydraulic unit	
23	Disk rotation rate inductive sensor	*51520150*
24	Boom rotation rate inductive sensor	*51520150*

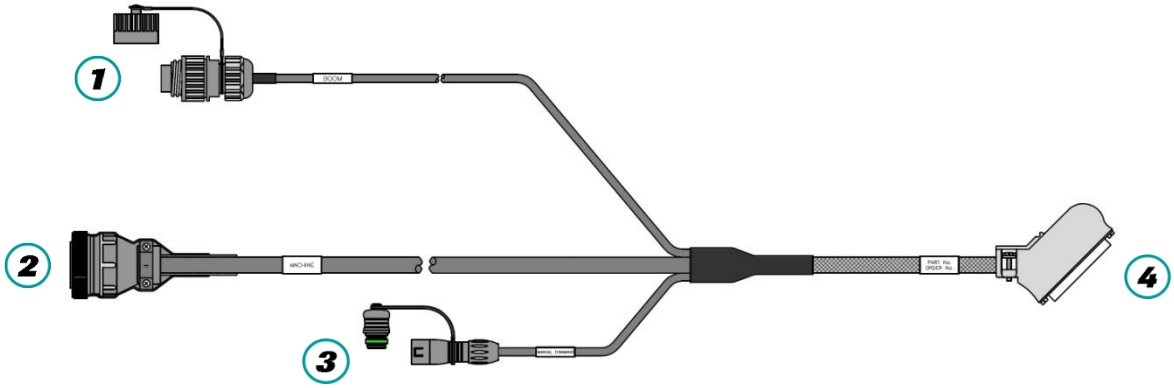
CONNECTION PLAN:
XT 160/210/240 H RD2



* ACTUATOR COLOUR CORRESPONDENCE TRIBORD			
EXTENSION SIDE		PINS	ACTUATOR SIDE
TYPE 1	TYPE 2		
Brown	Yellow	①	White
White	White	②	Black
Green	Black	③	Blue
Red	Red	④	Red

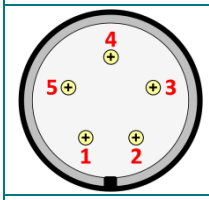


INTERMEDIATE WIRING:
XT 160/210/240 H RD2



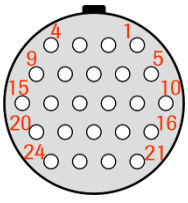
① MALE 7-PIN PLUG NOT USED

PIN	COLOUR	ECONOV FUNCTION	④ 50-WAY CONNECTOR
1	red	Not used	6
2	brown		5
3	blue		4
4	purple		3
5	green		2
6	yellow		1
⏚	black		17



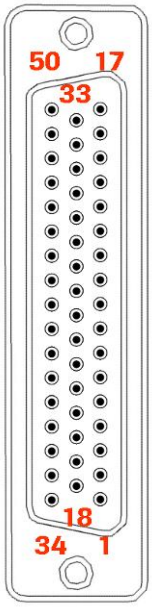
③ MALE 5-PIN PLUG NOT USED

PIN	COLOUR	FUNCTION	④
1	green	Not used	8
2	white		7
3	yellow		24
4	black		48
5	red		39



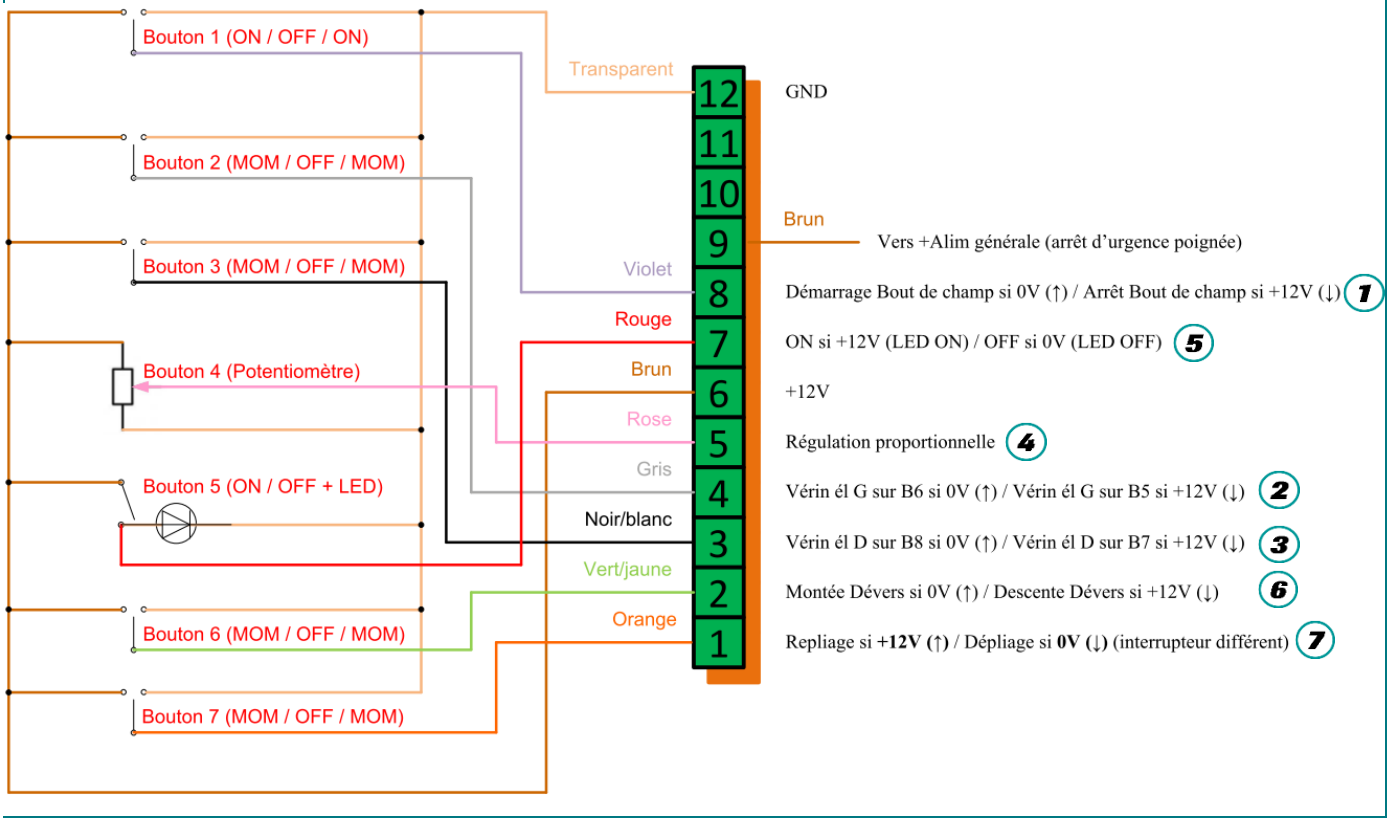
② FEMALE 24-PIN PLUG (SPREADER)

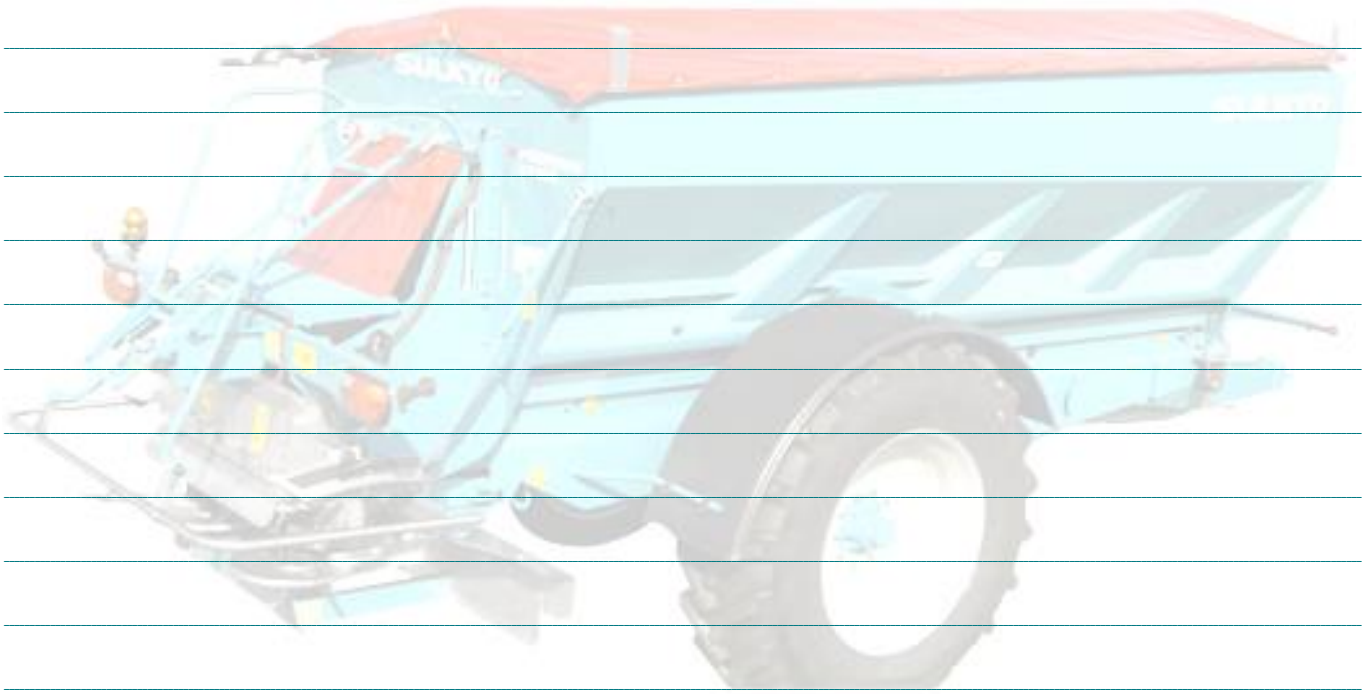
PIN	COLOUR	FUNCTION	④
1	red / blue	Left flow rate actuator signal	25
2	white / red	Right flow rate actuator signal	42
3	white	Boom auger rate	20
4	green	Forward movement speed	36
5	blue	Spreading disk rate	37
6		-	
7		-	
8	red / brown	Left - flow rate actuator	48
9	red / black	Left + flow rate actuator	47
10	red	Right - flow rate actuator	50
11	yellow	Right + flow rate actuator	49
12	Turquoise	Tribord actuator signal	38
13		-	
14	grey	0 V	32
15	pink	+ 5V actuator	28
16	brown	Power supply detection	6
17	yellow / red	Tribord + actuator	17
18	green / red	Tribord - actuator	16
19		-	
20		-	
21		-	
22	black	CAN activation	34
23	purple	CAN Hi	44
24	Orange	CAN Lo	45



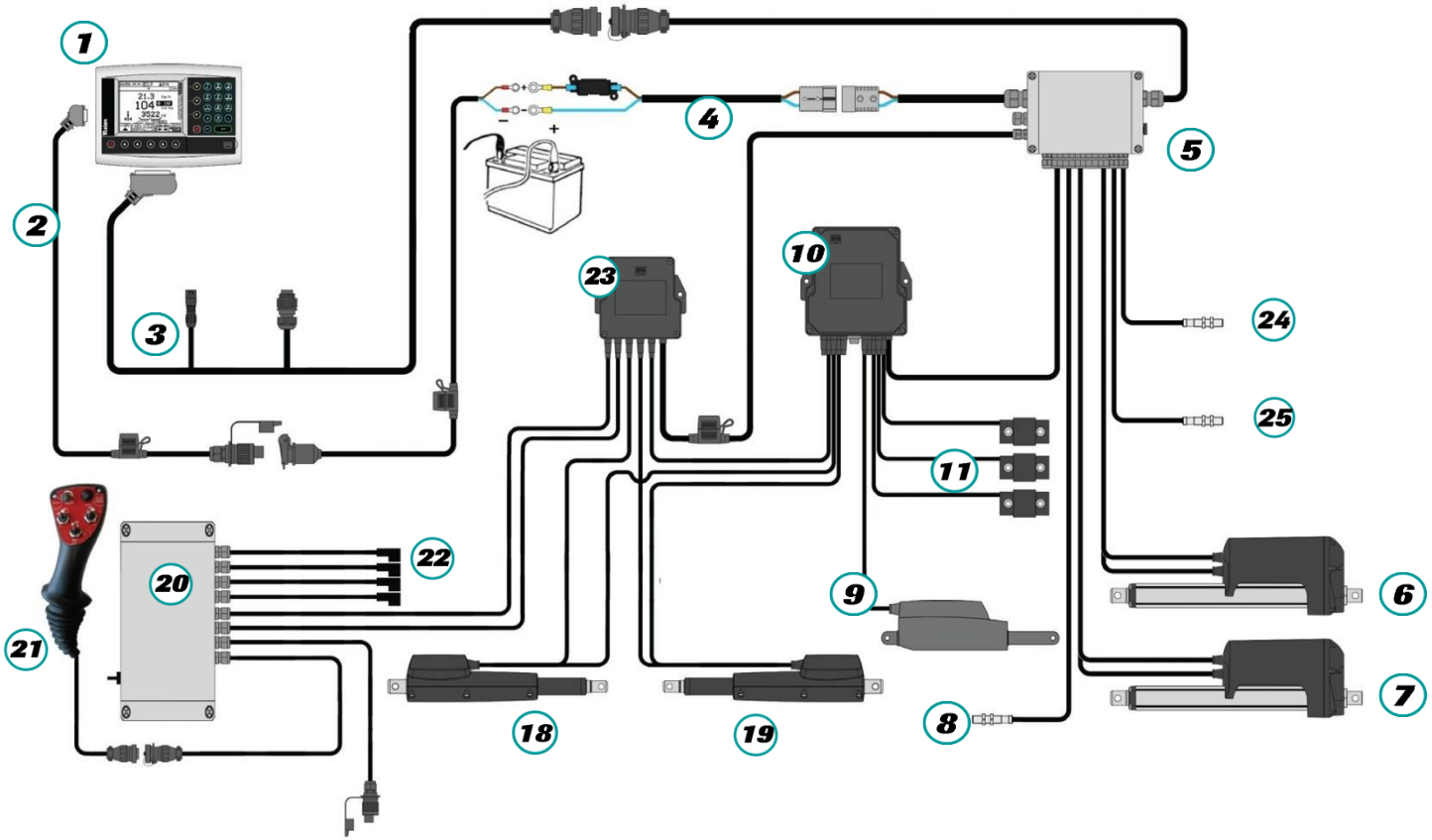
CONNECTION PLAN: JOYSTICK – RD2

Handle cabling:





WIRING PRESENTATION:
XT 160/210/240 H RD3

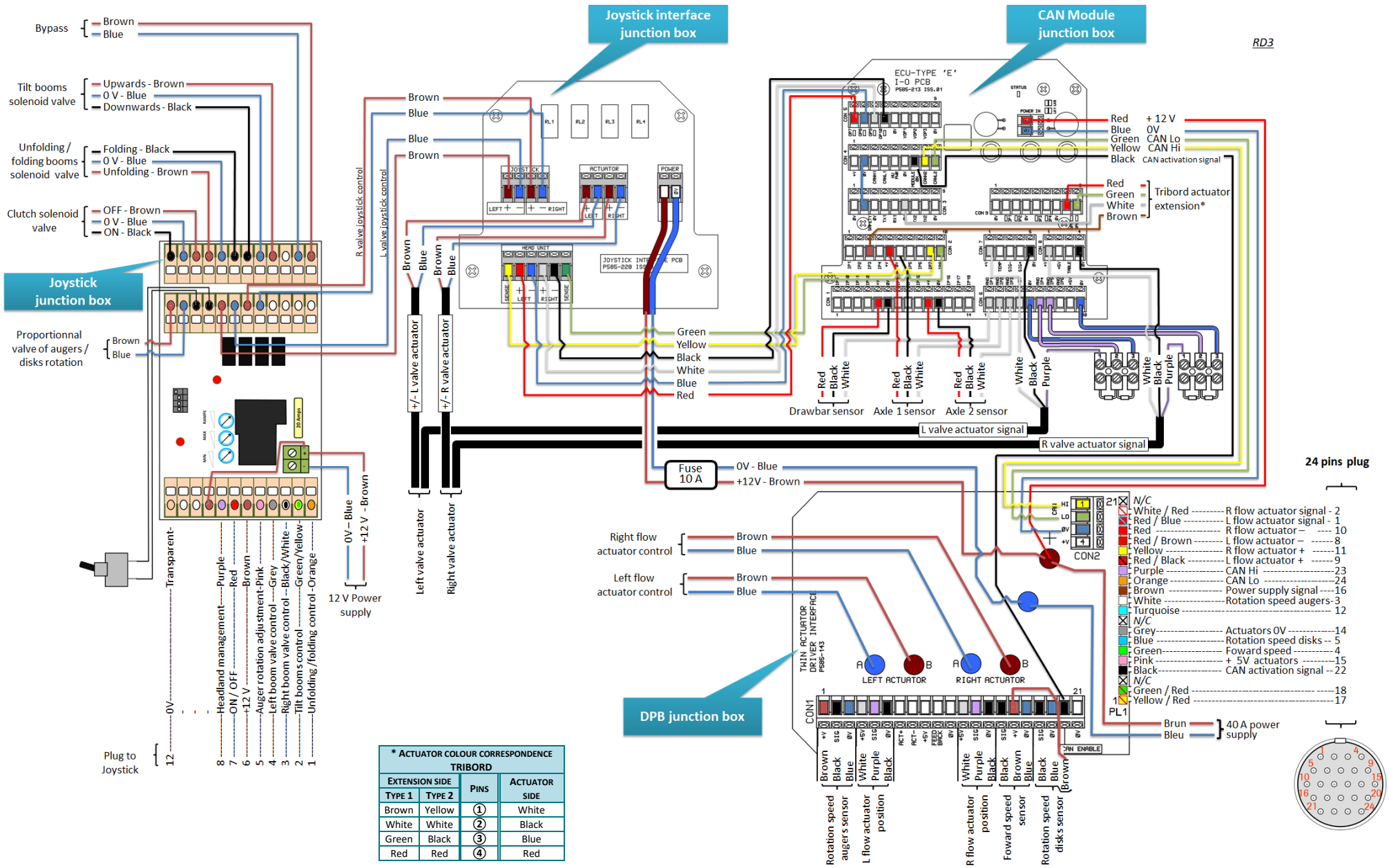


WIRING PRESENTATION:
XT 160/210/240 H RD3

ITEM	DESCRIPTIONS	PART REFERENCES
1	Vision PSI XT Polyvrac console	*51460040*
2	Console power supply cable	*51000290*
3	XT intermediate wiring	*51000390*
4	40 A battery direct power supply cable	*Cable: 51000270* *40 A fuse 52570120*
5	DPB XT Polyvrac connection unit	*50500440*
6	300 mm gate electric actuators Model: LA 36 -1203000P00AA	*Actuator: 59000643* *Power cable: 51000240* *Signal cable: 51000250*
7		
8	Inductive sensor - Forward speed	*51520150*
9	TRIBORD 3D electric actuator – 50 mm	*29020120*

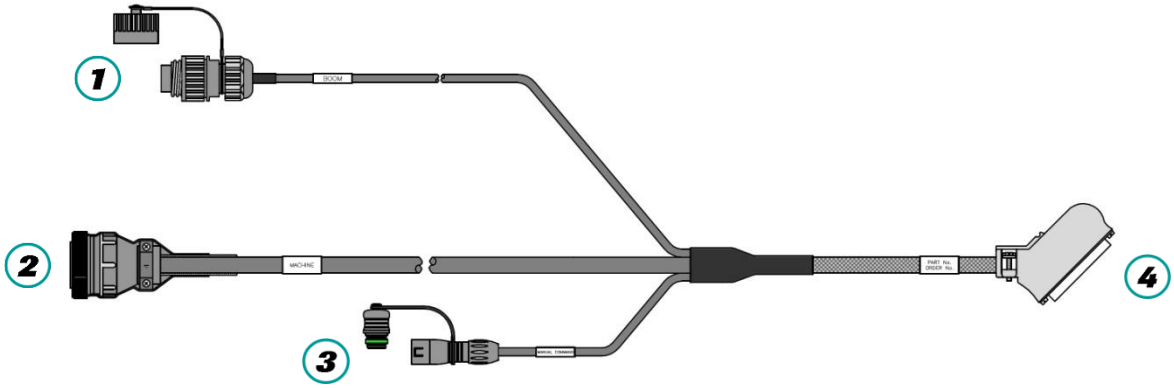
ITEM	DESCRIPTIONS	PART REFERENCES
10	CAN connection unit	*55330050*
11	Weighing extensiometer sensors (2 sensors on single axle / 3 sensors on double axle)	*51400020*
18	Boom valve electric actuator with sensor Model: LA 3510A0+0**A**100A20	*Actuator: 59000690* *Power cable: 51000300* *Signal cable: 51000350*
19		
20	Ergonomic handle connection unit	*50500500*
21	Ergonomic handle	*56520120*
22	Solenoid valve connectors to hydraulic unit	
23	Auto valve CAN module	*55330060*
24	Disk rotation rate inductive sensor	*51520150*
25	Boom rotation rate inductive sensor	*51520150*

CONNECTION PLAN:
XT 160/210/240 H RD3



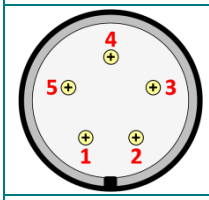
* ACTUATOR COLOUR CORRESPONDENCE TRIBORD			
EXTENSION SIDE		PINS	ACTUATOR SIDE
TYPE 1	TYPE 2		
Brown	Yellow	①	White
White	White	②	Black
Green	Black	③	Blue
Red	Red	④	Red

INTERMEDIATE WIRING:
XT 160/210/240 H RD3



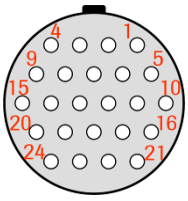
① MALE 7-PIN PLUG NOT USED

PIN	COLOUR	ECONOV FUNCTION	④ 50-WAY CONNECTOR
1	red	Not used	6
2	brown		5
3	blue		4
4	purple		3
5	green		2
6	yellow		1
⏚	black		17



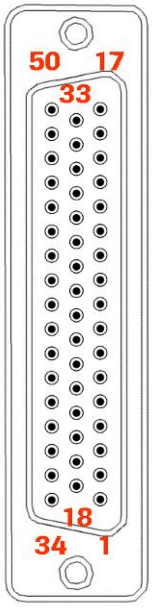
③ MALE 5-PIN PLUG NOT USED

PIN	COLOUR	FUNCTION	④
1	green	Not used	8
2	white		7
3	yellow		24
4	black		48
5	red		39



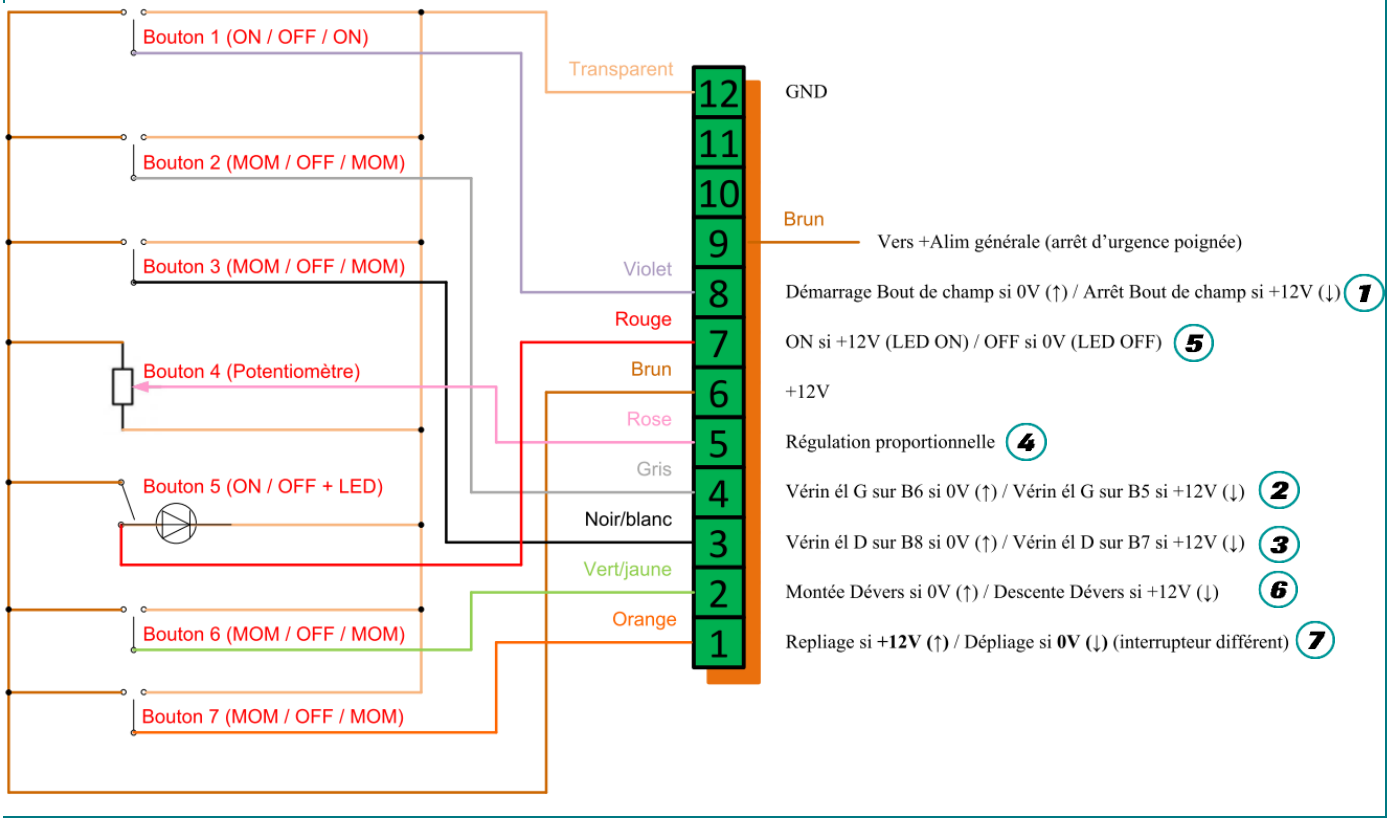
② FEMALE 24-PIN PLUG (SPREADER)

PIN	COLOUR	FUNCTION	④
1	red / blue	Left flow rate actuator signal	25
2	white / red	Right flow rate actuator signal	42
3	white	Boom auger rate	20
4	green	Forward movement speed	36
5	blue	Spreading disk rate	37
6		-	
7		-	
8	red / brown	Left - flow rate actuator	48
9	red / black	Left + flow rate actuator	47
10	red	Right - flow rate actuator	50
11	yellow	Right + flow rate actuator	49
12	Turquoise	Tribord actuator signal	38
13		-	
14	grey	0 V	32
15	pink	+ 5V actuator	28
16	brown	Power supply detection	6
17	yellow / red	Tribord + actuator	17
18	green / red	Tribord - actuator	16
19		-	
20		-	
21		-	
22	black	CAN activation	34
23	purple	CAN Hi	44
24	Orange	CAN Lo	45

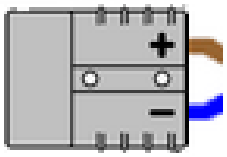


CONNECTION PLAN:
JOYSTICK - RD3

Handle cabling:



Battery direct power supply cable:

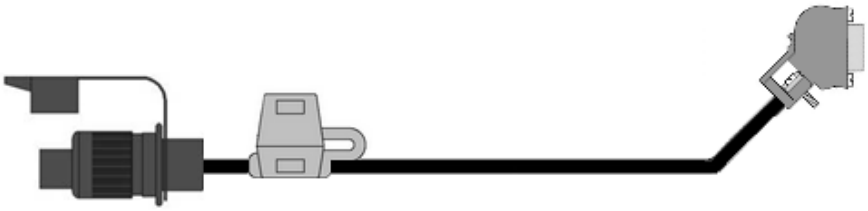


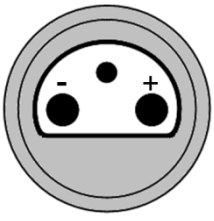
PLUG PIN	COLOUR	FUNCTION
-	Blue	0 V
+	Brown	+ 12 V

Notes:

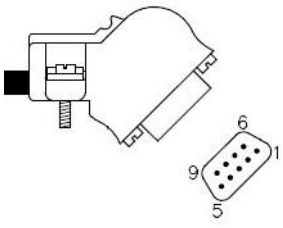
The direct battery supply is protected by a 40 A strip fuse.
40 A fuse reference: 52570120

Console power supply cable:





PLUG PIN COBO	COLOUR	FUNCTION	PLUG PIN RS 232
-	Blue	0 V	1
+	Brown	+ 12 V	2



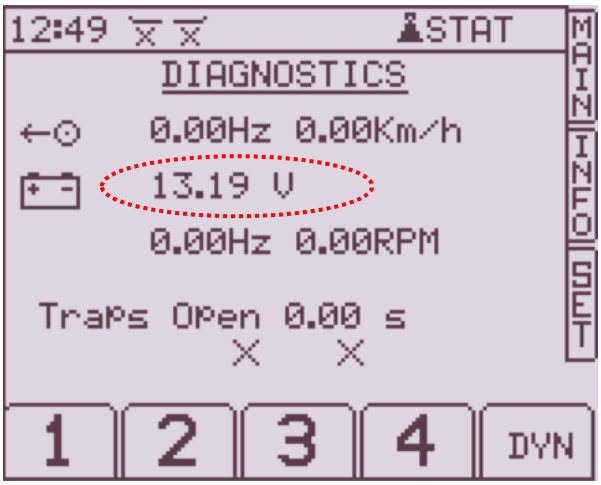
Note:
The console power supply is protected by two 5 A fuses.

Diagnostic on the Vision console:

The Vision console and DPB connection unit power supply voltage may be checked from the **"Diagnostics"** menu

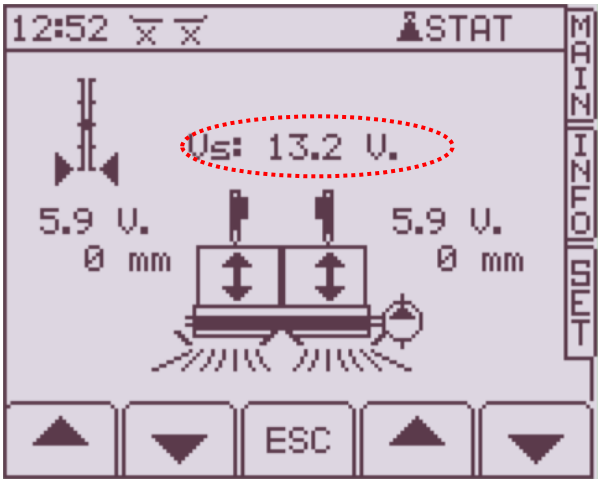
a) Vision console power supply:

⇨ On the VISION console, access the **SETUP** menu with the key, then the **"Diagnostics"** page with



b) Connection unit power supply:

⇨ From the **"Diagnostics"** menu, press 2



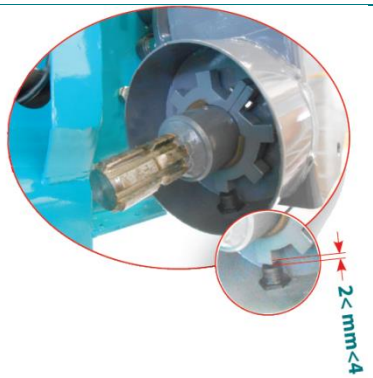
⚠ *It is vital to have a common earth between the two power supplies.*
A difference in voltage between these two modules may hinder operation.

Forward speed sensor: Inductive sensor
Spare parts references: ⇨ Sensor: 51520150

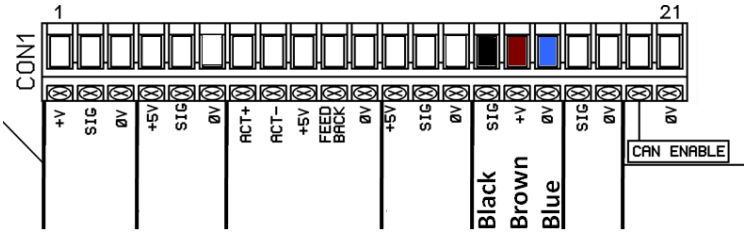
The inductive sensors produce a magnetic field at the end of their detection head. When a metal object enters it, it disrupts this magnetic field. This interference is exploited by an amplifier which delivers an output signal.

Sensor adjustment:

The end of the sensor must be between 2 mm and 4 mm from the detection pin passage. When the circuit is under voltage, a light comes on when a metal pin is detected.

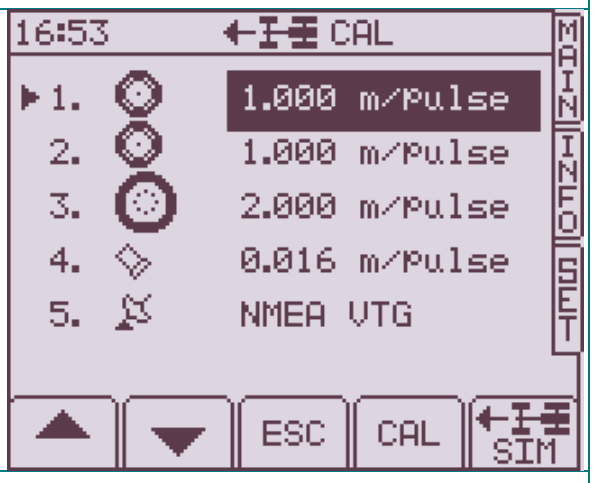


Connections:
DPB connection unit



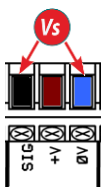
Configuration on the console:

- ⇨ The forward movement speed from the sensor is only displayed when the distribution is engaged.
- ⇨ On the console, in the **REG** / menu, use one of the first four positions . You may enter the forward movement coefficient if you know it or perform a calibration over 100 m by pressing CAL .



Checking the sensor:

- ⇨ Measure the voltage in the connection unit between the black wire and blue wire terminals.



Vs = **0 V** + light on if a metal target present
Vs = **12 V** + light off if no target

FLOW RATE ACTUATORS

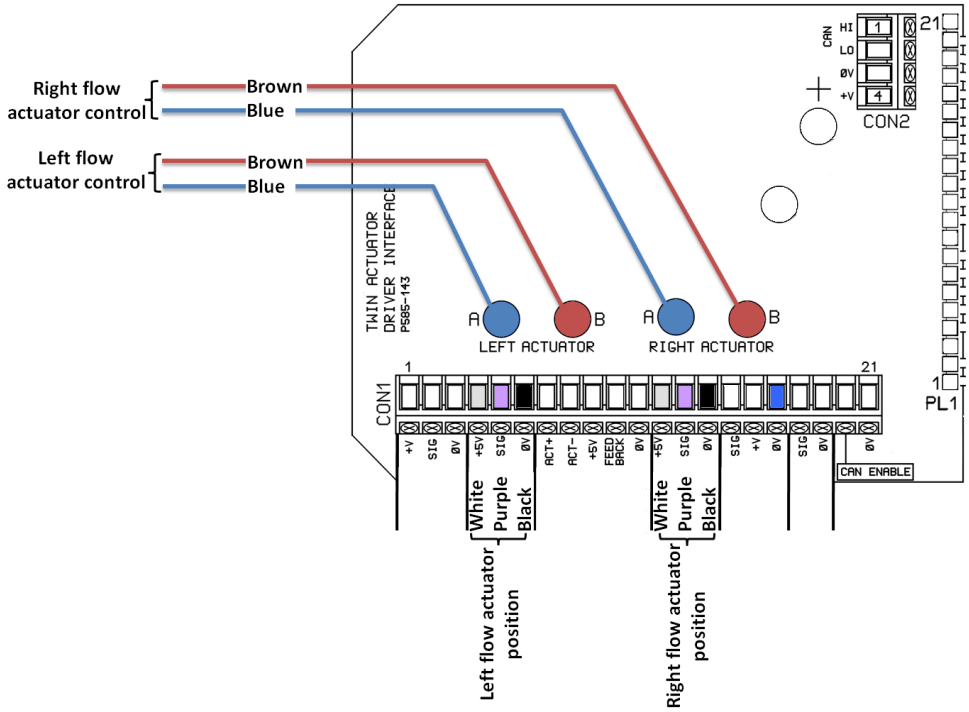
Electrical actuators: 250 mm (ECONOV) or 300 mm (DPB/DS2/RD2/RD3) run with position return by potentiometer.

FLOW RATE ACTUATOR FOR DPB/DS2/RD2/RD3 – *300 MM RUN*	
Type:	LA 361203000P00AA -611H305000X0000
Actuator reference:	59000643
Power cable ref:	51000240
Signal cable ref:	51000250

FLOW RATE ACTUATOR FOR ECONOV – *250 MM RUN*	
Type:	LA 361202500P00AA -621F304500X0000
Actuator reference:	59000703
Power cable ref:	51000240
Signal cable ref:	51000250

Connections:

DPB connection unit



Actuator calibration:
This is an electrical calibration; it is necessary when replacing an electric actuator or replacing a console without being able to read the values first.

Access the **SETUP** menu by pressing

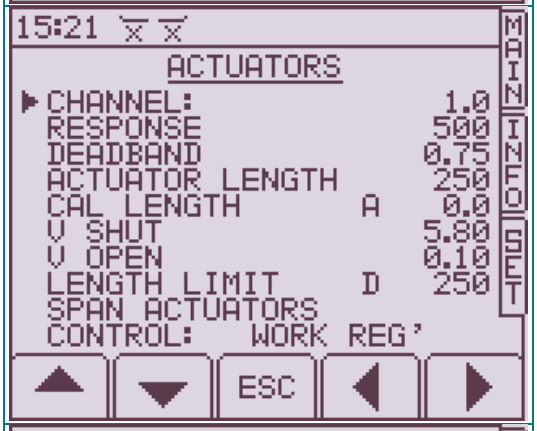
Then select **1. Sensor configuration** with the number pad.

Enter the PIN code: **1936** and validate with

Press the key

Enter the following values on **Channel 1: 1.0** :

	DPB/DS2/RD1/RD2	ECONOV
Response	**500**	**500**
Deadband	**0.60**	**0.60**
Actuator length	**300**	**250**
Cal length*	**A**	**A**
V Shut	**7.00**	**5.80**
V Open	**0.10**	**0.10**
Length limit* ⚠ *In the case of several spreading systems, carry out the setting on each profile.*	**Depending on the spreading system:** **Boom**: **R 230** Granulated disks: **D 200** Wet bulk: **V 300**	**D 250**
Control:	**WORK REG**	**WORK REG**



* The letters are modified using the keys

With the cursor on **Channel:** , press to access

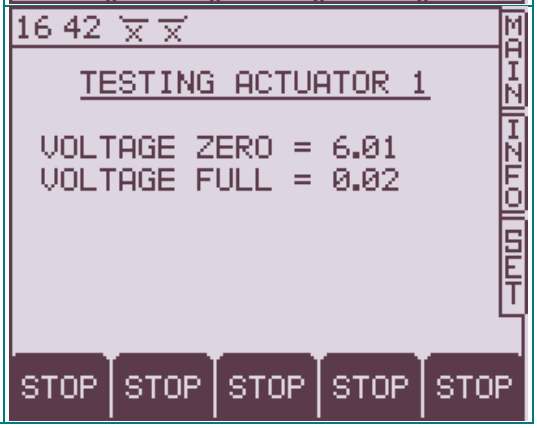
Channel: 2.0

Enter the values again

Make sure that nothing is preventing the hatches from rising and descending

Lower the cursor to **Span actuators** and validate with , then validate the warning message again

The calibration starts on the first actuator, then the second.

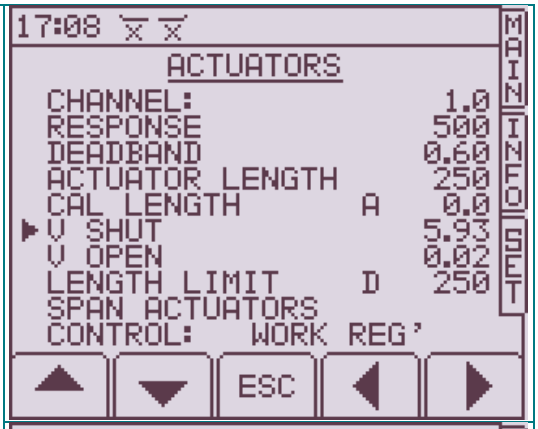


At the end of the cyvle, read the **V SHUT** and **V OPEN** values on **Channel 1** and **Channel 2**

⇨ For **V SHUT**, only keep the lowest value of **Channel 1** and **Channel 2** and deduct **0.03 from it**

Example: Channel 1-V SHUT = 6.01 and Channel 2-V SHUT = 5 .96
then: 5.96 – 0.03 = 5.93

Enter the new **V SHUT** value on **Channel 1** and **Channel 2**



⇨ For **V OPEN**, only keep the highest value of **Channel 1** and **Channel 2** and add **0.03 to it**

Example: Channel 1-V OPEN = 0.02 and Channel 2-V OPEN = 0.03
then: 0.06 + 0.03 = 0.06

Enter the new **V OPEN** value on **Channel 1** and **Channel 2**

Press **ESC** to exit

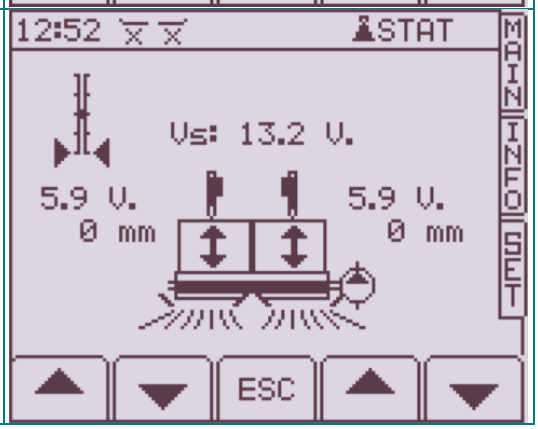
Diagnostic on the console:

Access the **SETUP** page with the key

Press * for **"Diagnostics"**

Select 2

In this page, you can control the electric flow rate actuators manually and check their position.



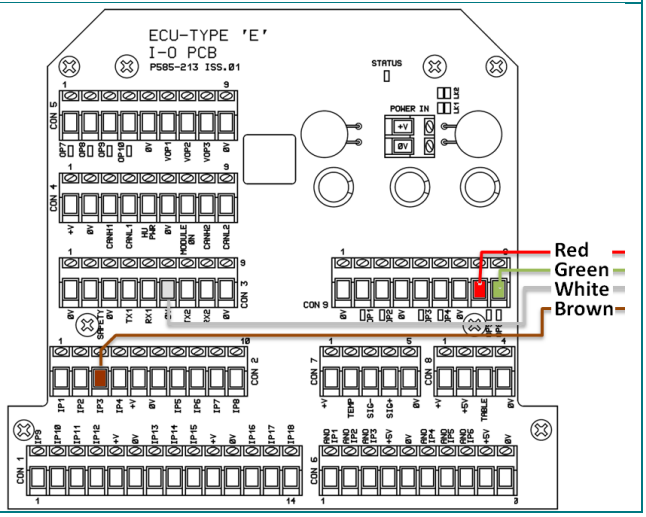
TRIBORD ACTUATOR

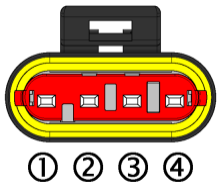
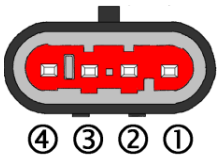
Electric actuators: 50 mm run with position sensor
LINAK 121M00 – 1050122 X No. 082506

Spare part reference: *29020120*

Connections:

SIMPLE DPB	DPB + WEIGHING / ECONOV / DS2 / RD1/RD2
DPB connection unit	CAN module



EXTENSION SIDE MALE PLUG	COLOUR TYPE 1	COLOUR TYPE 2	PINS	FUNCTION	COLOUR	ACTUATOR SIDE FEMALE PLUG
 ① ② ③ ④	Brown	Yellow	①	Actuator signal	White	 ④ ③ ② ①
	White	White	②	Signal 0 V	Black	
	Green	Black	③	+/- or -/+ actuator power supply 12 V	Blue	
	Red	Red	④		Red	

Programming the Vision console:

In mode

Select the **SETUP** menu with then select **1. Sensor configuration**

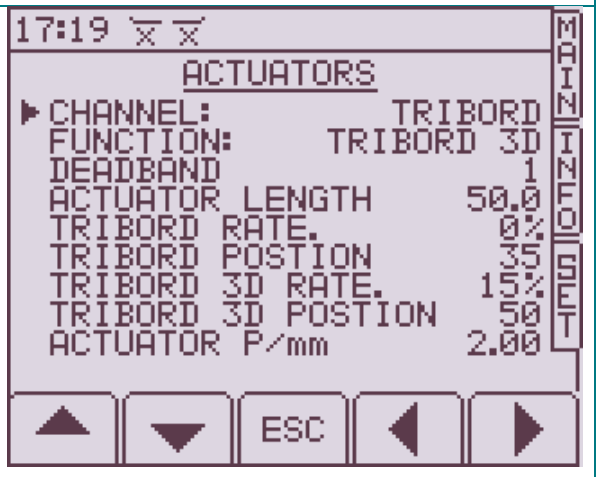
Enter the PIN code "**1936**" and validate with

Select .

Select the **"Tribord"** actuator pressing 4 times

Lower the cursor to **Function** with

Display **"TRIBORD 3D"** instead of **"Not used"** with

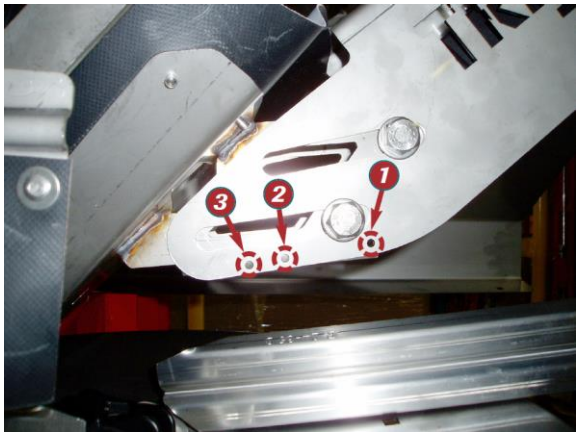


Actuator position check

The Ø 4 mm holes must be aligned:

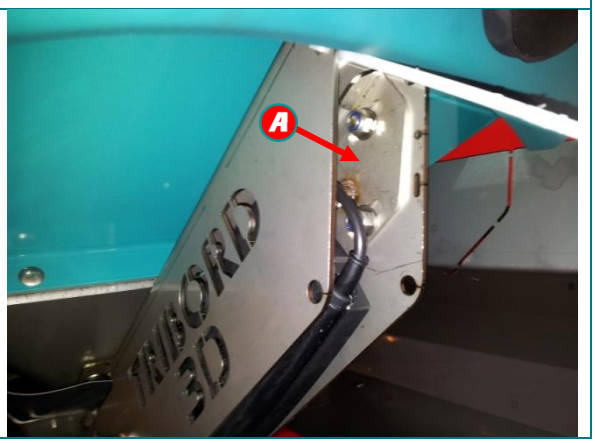
- In ① position in Normal Spreading mode
- In ② position in Eco-output edge
- In ③ position in Eco-environment edge

(Only on ECONOV)
These indications are only valid for widths under 32 m. Above this, the edge positioning may be different depending on the fertiliser



Tribord actuator locking:

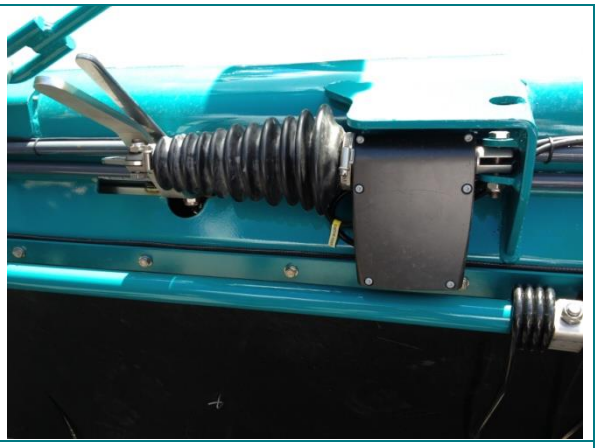
The electric actuator is locked by an adjustable support on the actuator body side. Make sure that the console is in "normal spreading" position ①
The Ø 4 mm holes must be aligned. Otherwise, work on the actuator attachment (A)



BOOM VALVE ACTUATORS
RD1 – RD2

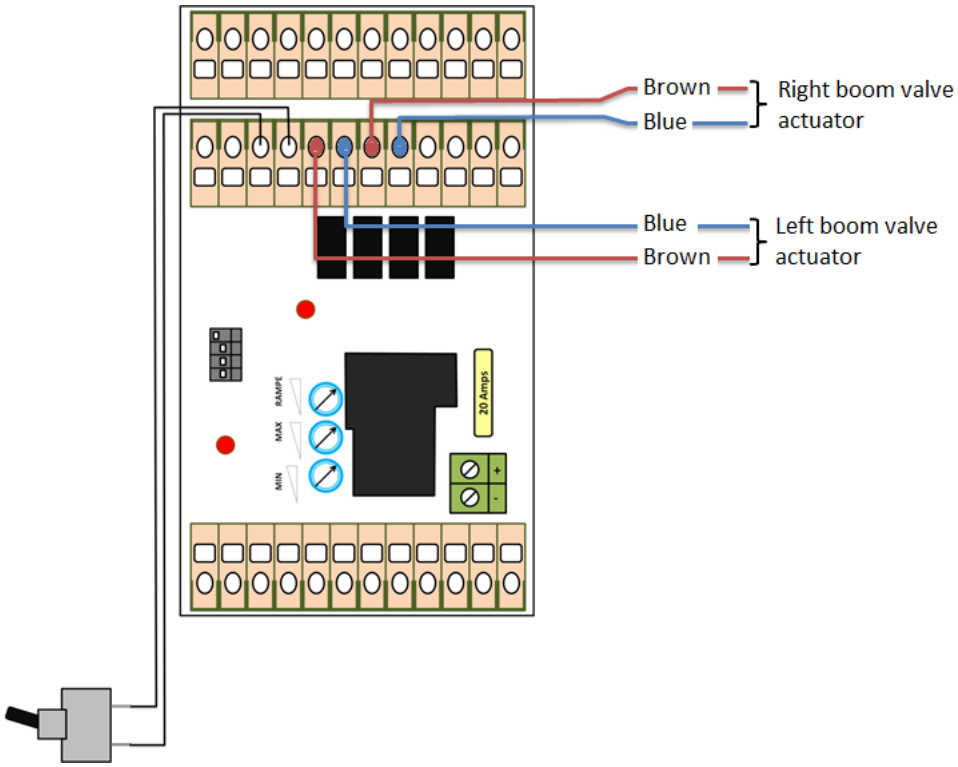
Electric actuators: 100 mm run

BOOM VALVE ACTUATOR FOR RD1 AND RD2	
Type:	LA 3510A0+00100A20 Without position sensor
Actuator reference:	59000630
Power cable ref:	51000300
Signal cable ref:	no signal



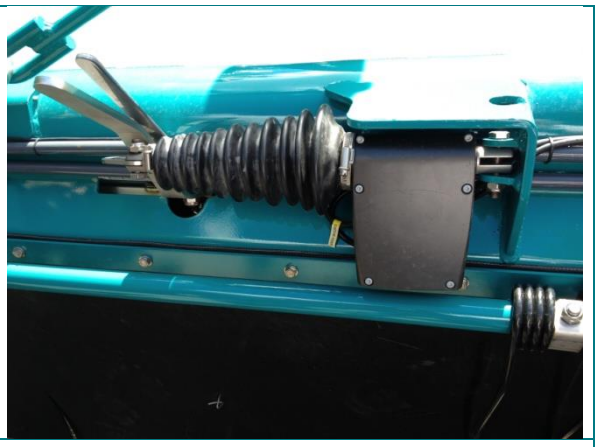
Connections:

Joystick connection unit:



BOOM VALVE ACTUATORS
RD3

Electric actuators: 100 mm run

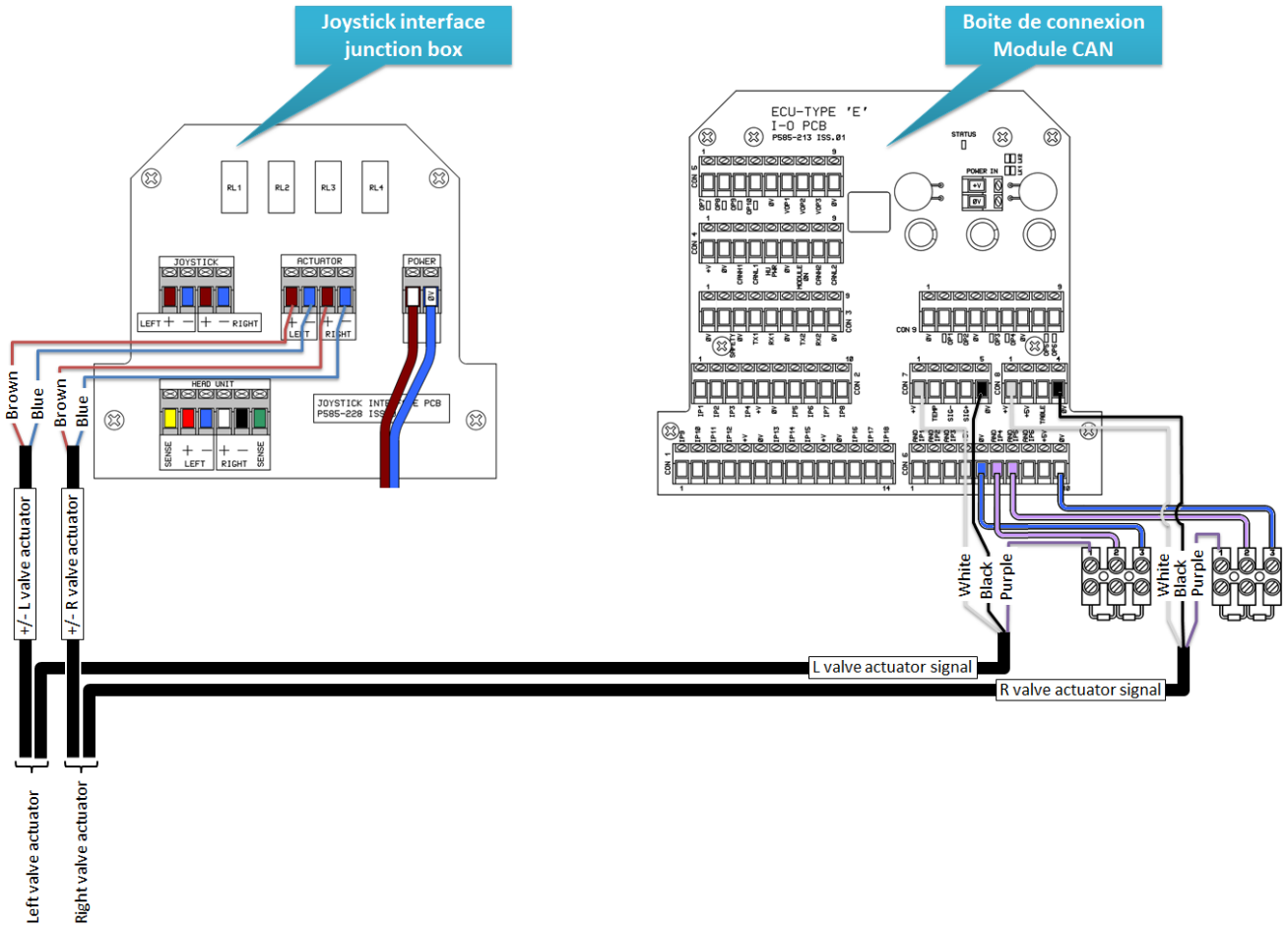


AUTO BOOM VALVE ACTUATOR FOR RD3	
Type:	LA 3510A0+0**A**100A20 With position sensor - Potentiometer
Actuator reference:	59000690
Power cable ref:	51000300
Signal cable ref:	51000350

Connections:

Command cable: joystick interface connection unit

Positioning signal cable: CAN module connection unit



Actuator calibration:
This is an electrical calibration; it is necessary when replacing an electric actuator or replacing a console without being able to read the values first.

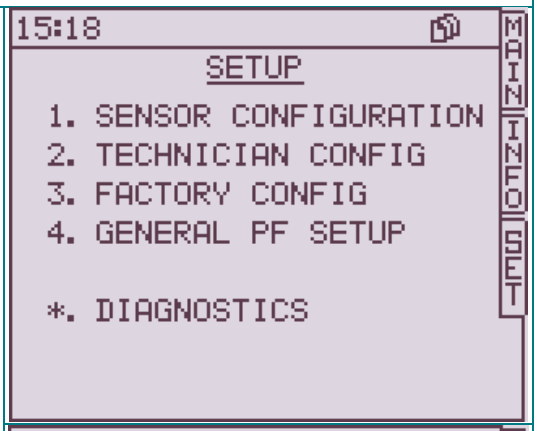
Start the console in boom mode

Access the **SETUP** menu by pressing

Then select **1. Sensor configuration** with the number pad.

Enter the PIN code: **1936** and validate with

Press the key



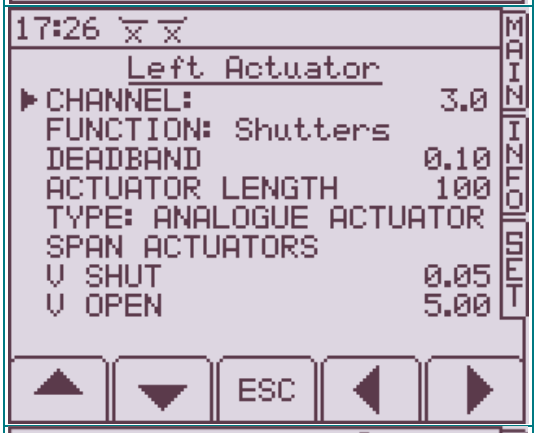
Access **Channel: 3** using the arrow

Check the values below:

	RD3 ONLY
Function:	**Valve**
Tolerance margin	**0.10**
Actuator length	**100**
Type	**Analogue actuator**

The values are modified with the number pad and with

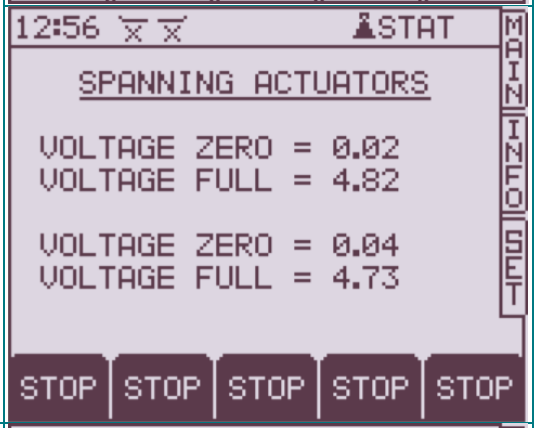
Do the same on **Channel: 4**



Make sure that nothing is preventing the valves from opening and closing

Lower the cursor to **Span actuators** and validate with , then validate the warning message again

The calibration starts on the first actuator, then the second.



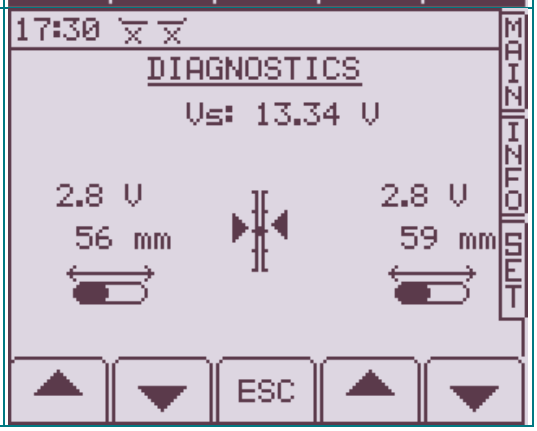
Diagnostic on the console:

Access the **SETUP** page with the key

Press for **"Diagnostics"**

Select 3

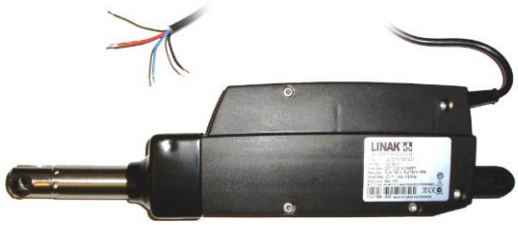
In this page, you can control the electric flow rate actuators manually and check their position.



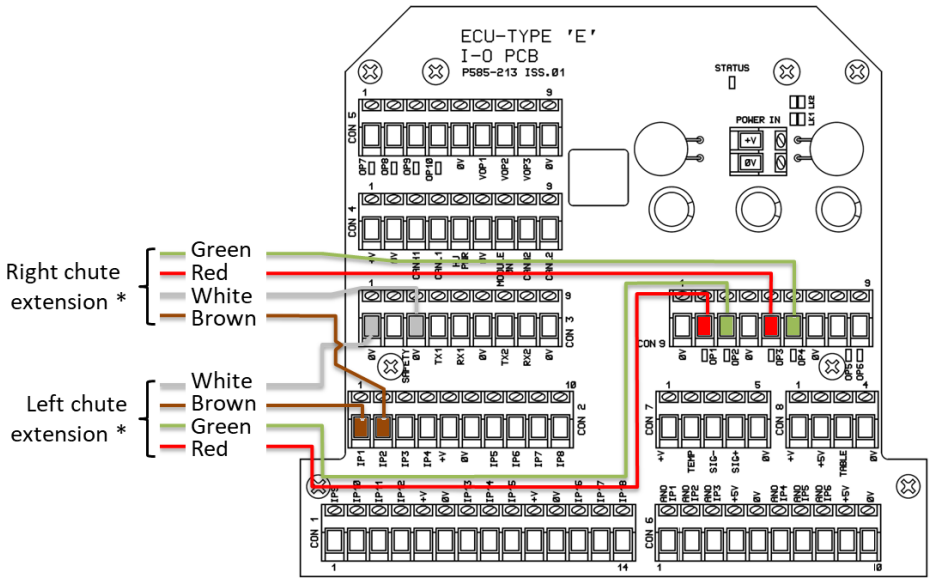
ECONOV ACTUATORS ON SPOUTS

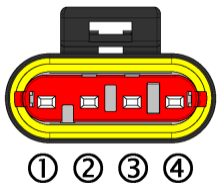
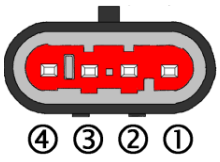
Electric actuators: 130 mm run with position sensor
LINAK 121M00 – 1130122 XX No. 082505

Spare part reference: 29020150



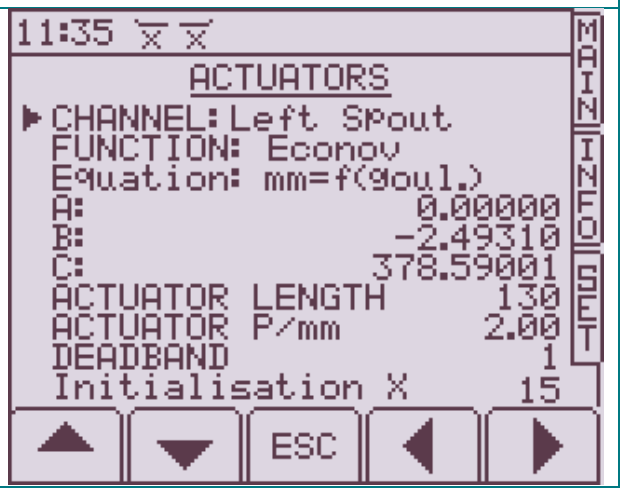
Connections:
CAN module



EXTENSION SIDE MALE PLUG	COLOUR		PINS	FUNCTION	COLOUR	ACTUATOR SIDE FEMALE PLUG
	TYPE 1	TYPE 2				
 ① ② ③ ④	Brown	Yellow	①	Actuator signal	White	 ④ ③ ② ①
	White	White	②	Signal 0 V	Black	
	Green	Black	③	+/- or -/+ actuator power supply 12 V	Blue	
	Red	Red	④		Red	

Console configuration:

Start the console in "granulated disks" mode
Access the **SETUP** page with the key
Select **1. Sensor configuration** with the number pad.
Enter the PIN code **1936** and validate with .
Then press the key
Press twice to display the ECONOV actuators



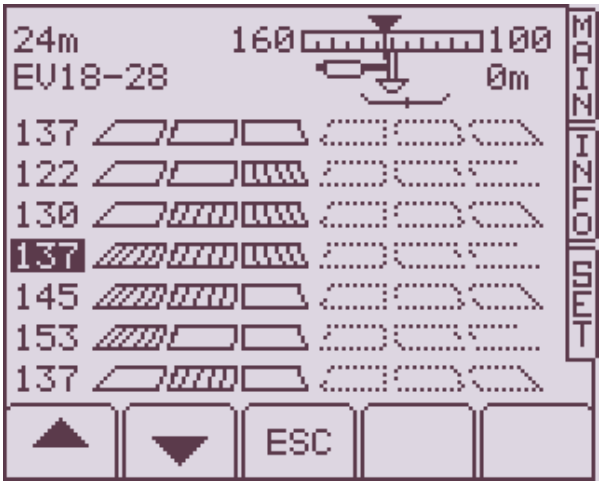
Actuator calibration:

From the **REG** menu

Press 

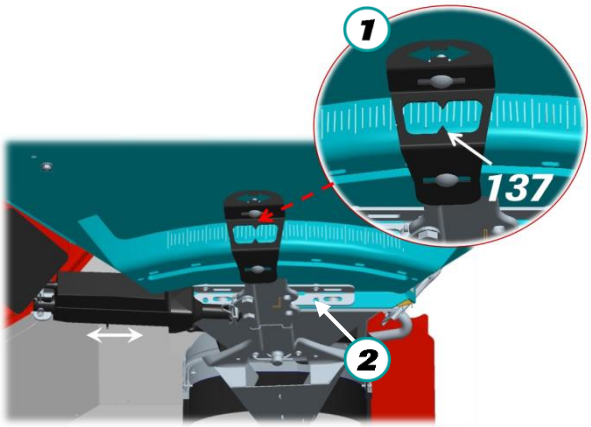
Then press CAL

Using the ▲ ▼ keys, display **137** as width setting



The width lever indices must be at marker **137** ①

If this is not the case, you must act on the actuator attachments ② (adjustment lights present).



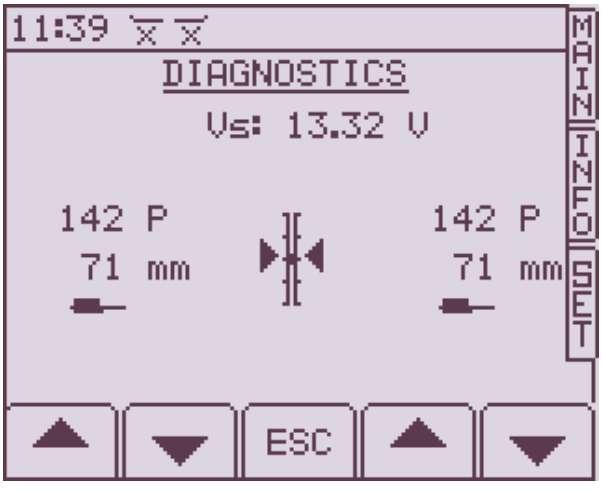
Diagnostic on the console:

Access the **SETUP** page with the  key

Press  for **"Diagnostics"**

Select 3

In this page, you can control the electric flow rate actuators manually and check their position.



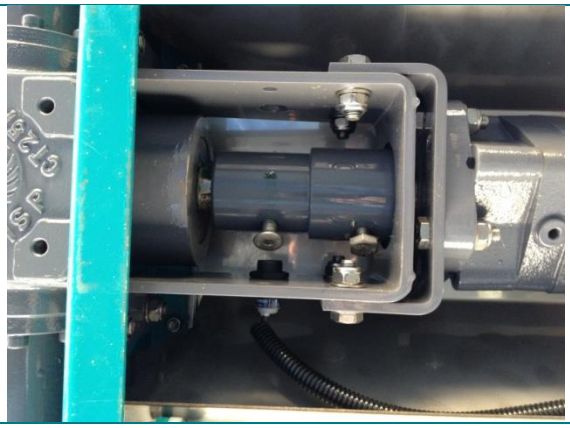
DISK ROTATION SENSOR

Disk rate sensor: Inductive sensor
Spare parts references: ⇨ Sensor: 51520150

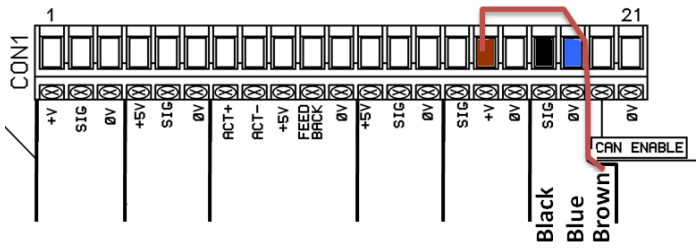
The inductive sensors produce a magnetic field at the end of their detection head. When a metal object enters it, it disrupts this magnetic field. This interference is exploited by an amplifier which delivers an output signal.

Sensor adjustment:

The end of the sensor must be between 2 mm and 4 mm from the auger head passage. When the circuit is under voltage, a light comes on when the metal pin is detected.



Connections:
DPB connection unit:

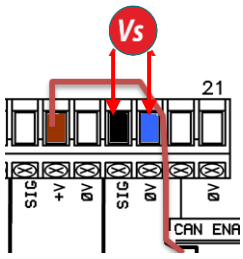


Configuration on the console:
Start the console in granulated disks or wet bulk mode.
Access the **SETUP** menu by pressing
Sélectionner **1.Sensor configuration**
Enter the PIN code **1936** and validate
Press **4. Disk setup**
Enter the values in the corresponding mode:

	GRANULES MODE	WET BULK MODE
DISK PPR	1.00	1.00
LOW RPM	480	300
HIGH RPM	580	450

Switch the console off then start again with the second mode.

Checking the sensor:



⇨ Measure the voltage in the connection unit between the black wire and blue wire terminals.

Vs = **0 V** + light on if a metal target present
Vs = **12 V** + light off if no target

BOOM AUGER ROTATION SENSOR

Boom auger rate sensor: Inductive sensor
Spare parts references: ⇨ Sensor: 51520150

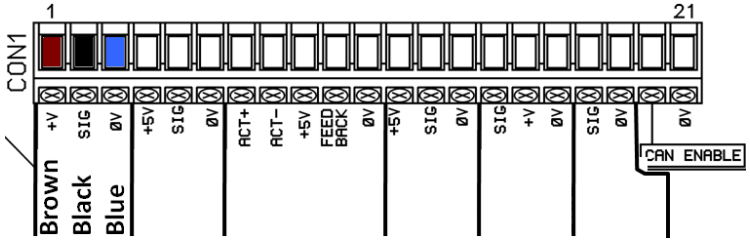
The inductive sensors produce a magnetic field at the end of their detection head. When a metal object enters it, it disrupts this magnetic field. This interference is exploited by an amplifier which delivers an output signal.

Sensor adjustment:

The sensor is positioned on the left hand boom

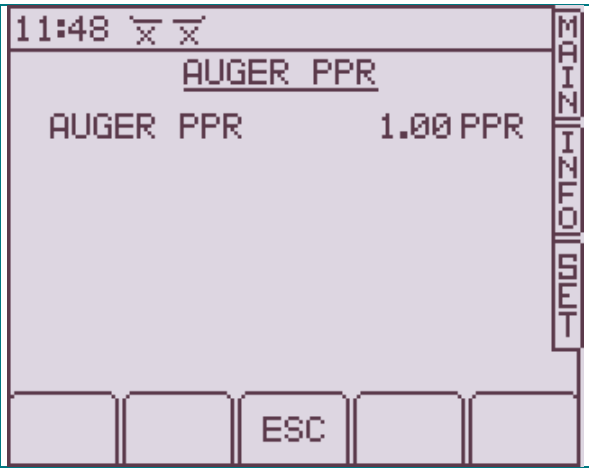
The end of the sensor must be between 2 mm and 4 mm from the auger head passage. When the circuit is under voltage, a light comes on when the metal pin is detected.

Connections:
DPB connection unit:

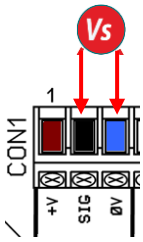


Configuration on the console:

Start the console in boom mode.
Access the **SETUP** menu by pressing
Select **1. Sensor configuration**
Enter the PIN code **1936** and validate
Press **4. AUGER PPR**
Check the value: **AUGER PPR 1.00 PPR**



Checking the sensor:



⇨ Measure the voltage in the connection unit between the black wire and blue wire terminals.

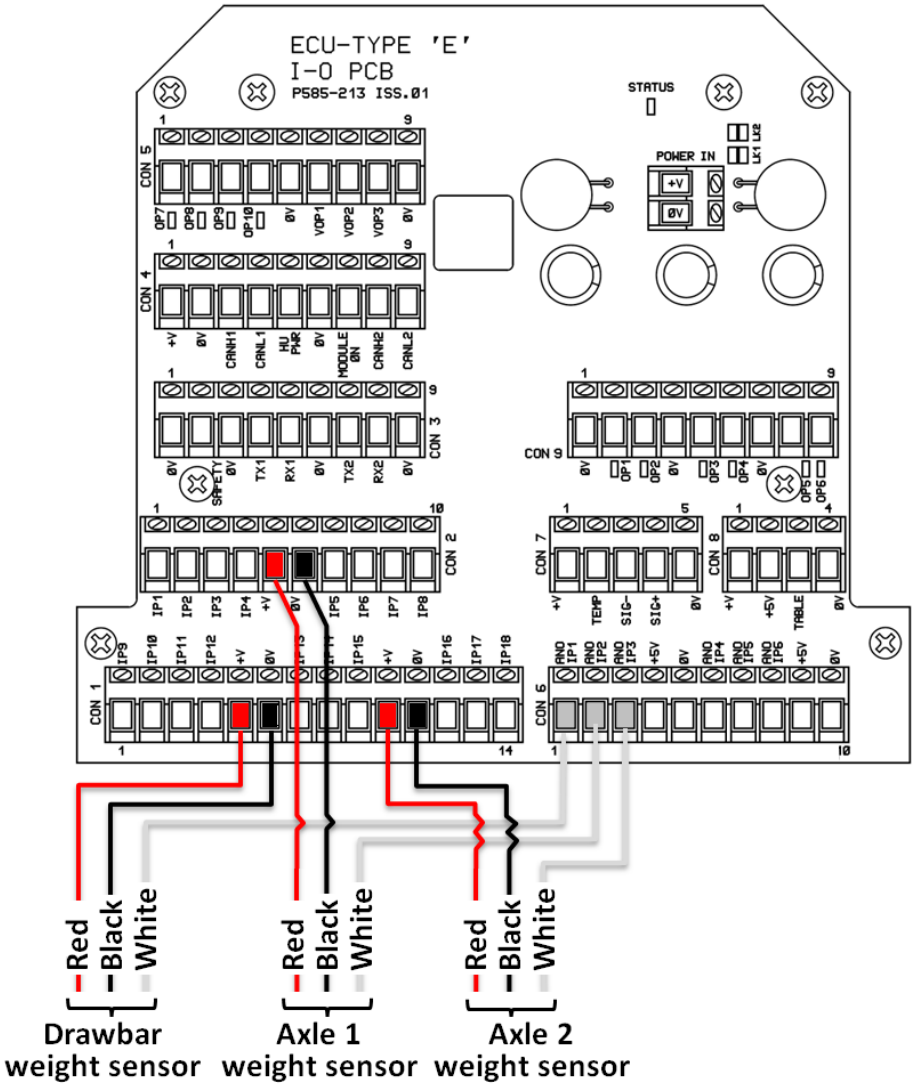
Vs = **0 V** + light on if a metal target present
Vs = **12 V** + light off if no target

WEIGHING SENSOR

Weighing sensors: EPSIMETAL AX extentiometer
Spare parts references: ⇨ Sensor: 51400020

The extentiometers positioned on the boom and the axles measure their deformation according to the load. These measurements are used to determine the weight in the hopper.

Connections:
CAN module



Diagnostic on the console:

Access the **SETUP** page with the key

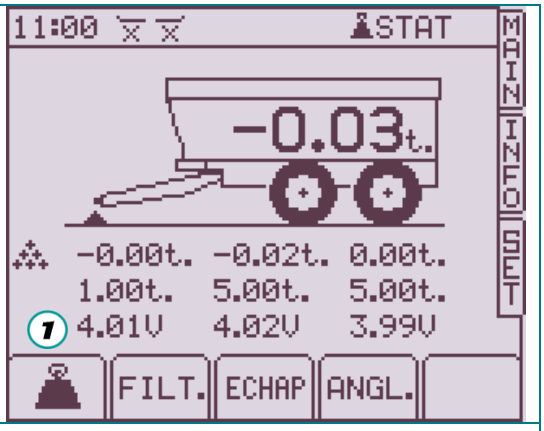
Press for **"Diagnostics"**

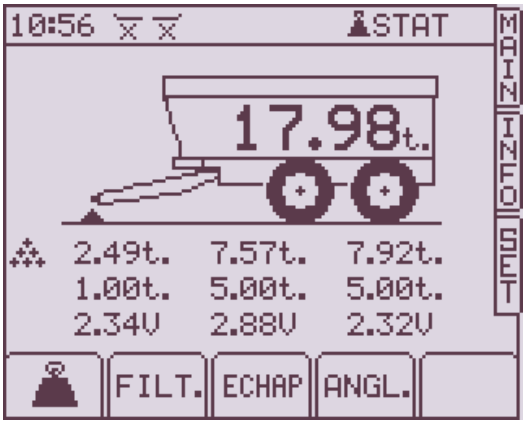
Select DYN

With the spreader empty, position the tractor/spreader assembly in a straight line, without reversing and without applying the brake, on flat ground.

The voltage of the different sensors ① unladen must be close to 4.00 V. *(If this is not the case, check the connection from the sensor at fault to the CAN module. Disconnected sensor = 0V. If the connections are ok, replace the sensor and adjust the offsets)*

Under load, the voltage on the different sensors must fall

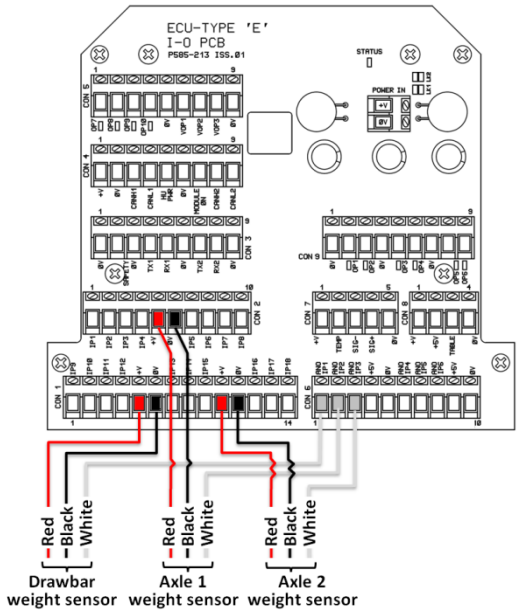




Inspection in the CAN module connection unit:

a) Sensor power supply check:
Measure the voltage between the red wire and the black wire on each sensor => +12 V

b) Sensor signal check:
Measure the voltage on the white wire and the black wire of each sensor => The voltages must be thise indicated in the console's **"Diagnostics"** menu. (Close to 4.00 V unloaded)



Replacing a weighing sensor requires specific equipment to adjust the sensor's OFFSET. See File B12

WEIGHING CALIBRATION

This is a weighing system which operates when static (stopped). A difference in weight of up to 3% is considered acceptable. Beyond this, a complete calibration is necessary.
In addition, modifying the tyre or track dimension or adding new equipment also requires a calibration.

Pre-requisites for a successful weighing calibration:

- A weigh-bridge to measure the weight of the spreader + tractor assembly on flat and horizontal ground.
- Provide a product volume close to the machine payload likely to be loaded into the hopper.
- Provide a solution to load and also empty the hopper, either by spreading on a plot or with the "integrated Emptying kit" option.
- All the weight measurements to be validated on the console must be taken when the Tractor-Machine assembly is stopped in a straight line, without the brake applied, on flat and horizontal ground, without reversing and with the follow axle free.

Access the **SETUP** menu by pressing

Select **1 -Sensor configuration** with the number pad

Enter the PIN code **1936** and validate

Select

Enter the PIN code **1936** again and validate

Check the type of machine on the line **Axle:**

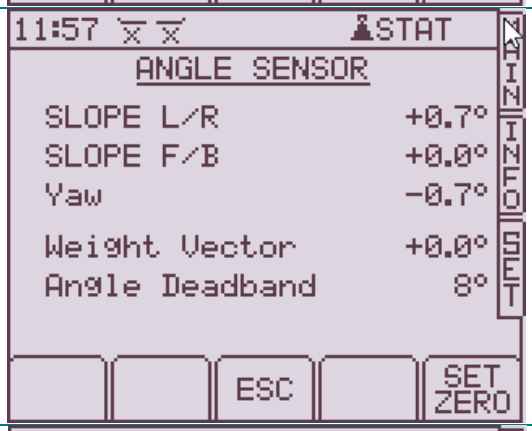
Single axle	**1 Axle**
Bogey type double axle	**Bogey**
Tandem type double axle	**Twin**

Position the tractor/spreader assembly on the weigh-bridge (in a straight line, without reversing and without applying the brake)

Select **Angle sensor** with the arrows and validate

Press SET ZERO

Press **ESC**



To perform a weighing calibration, press the **REG** key, then select and validate the setpoints with .

Press

Enter the PIN code **1234** and validate

Depending on the type of machine selected first, the procedure has a number of different pages.

a) **Single axle or bogey in 7 steps**
b) **Tandem in 9 steps**

a) Single axle or bogey

Weigh the Tractor-Machine assembly **unloaded**, then enter the weight recorded (in tonnes, for example 10.5 t) with the number pad and validate with ↵

Select CAL.2 to move onto the next step

Weigh on the axle (or axles) of the unloaded machine, then enter the weight recorded (in tonnes, for example 2.2 t) with the number pad and validate ↵.

Select CAL.3 to move onto the next step

Set the tare by pressing SET TARE before moving the Tractor-Machine assembly

Select CAL.4 to move onto the next step

Weigh the Tractor-Machine assembly **loaded**, then enter the weight recorded (in tonnes, for example 18.5 t) with the number pad and validate with ↵

Select CAL.5 to move onto the next step

Weigh on the axle (or axles) of the loaded machine, then enter the weight recorded (in tonnes, for example 7.7t) with the number pad and validate ↵.

Select CAL.6 to move onto the next step

WEIGHING CALIBRATION

Press SET CAL to validate the calibration procedure

Select CAL.7 to view the calibration coefficient values for each sensor.

Read the CAL values to log them

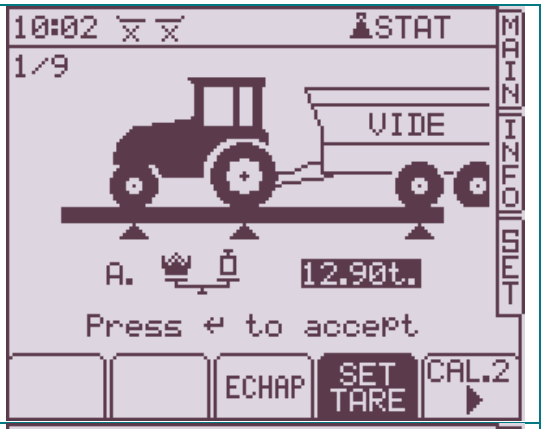
Validate with ↵ to exit the calibration procedure and return to the main screen.

The actual weighing is displayed greyed out. The value flashes if the machine is moving or is on a steep slope.
NB: The theoretical weight is displayed in Black; it alternates with the actual weight which is greyed out every 5 seconds to enable comparison.

b) Tandem axles

Weigh the Tractor-Machine assembly **unloaded**, without the machine's rear axle, then enter the weight recorded (in tonnes, for example 12.9 t) with the number pad and validate with ↵

Select CAL.2 to move onto the next step



Weigh the Tractor-Machine assembly **unloaded**, then enter the weight recorded (in tonnes, for example 16.5 t) with the number pad and validate with ↵

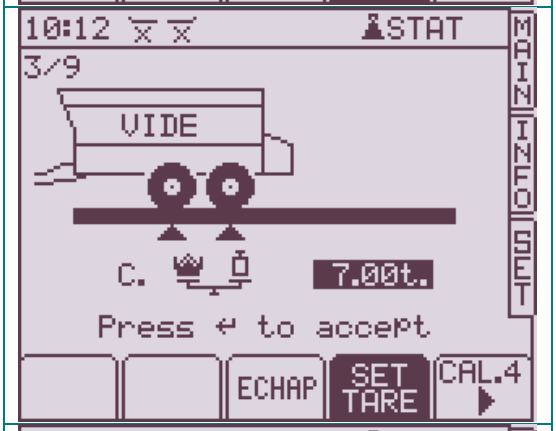
Select CAL.3 to move onto the next step

Weigh on the axles of the unloaded machine, then enter the weight recorded (in tonnes, for example 7.0 t) with the number pad and validate ↵.

Select CAL.4 to move onto the next step

Set the tare by pressing SET TARE before moving the Tractor-Machine assembly

Select CAL.5 to move onto the next step

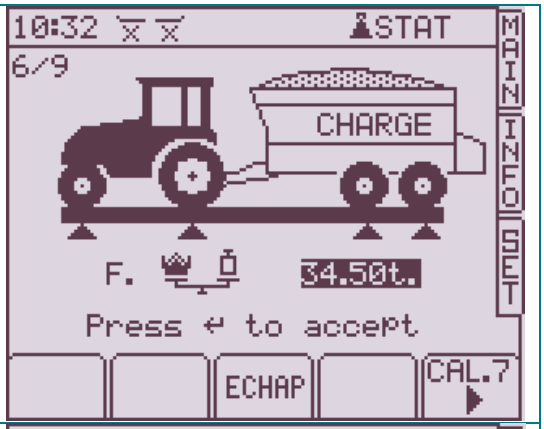


Weigh the Tractor-Machine assembly **loaded**, without the machine's rear axle, then enter the weight recorded (in tonnes, for example 23.0 t) with the number pad and validate with ↵

Select CAL.6 to move onto the next step

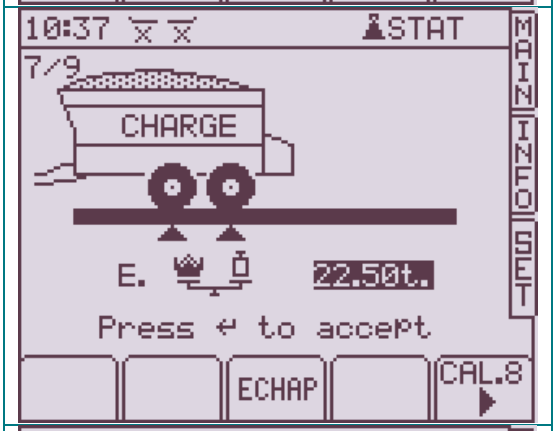
Weigh the Tractor-Machine assembly loaded, then enter the weight recorded (in tonnes, for example 34.5 t) with the number pad and validate with ↵

Select CAL.7 to move onto the next step



Weigh on the axles of the loaded machine, then enter the weight recorded (in tonnes, for example 22.5 t) with the number pad and validate ↵.

Select CAL.8 to move onto the next step



Press SET CAL to validate the calibration procedure

Select CAL.9 to view the calibration coefficient values for each sensor.

Read the CAL values to log them

Validate with ↵ to exit the calibration procedure and return to the main screen.

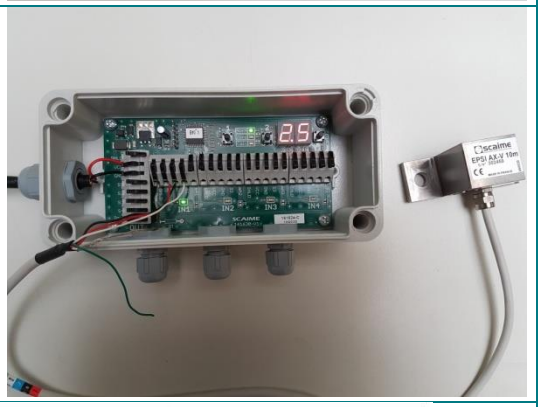
The actual weighing is displayed greyed out. The value flashes if the machine is moving or is on a steep slope.

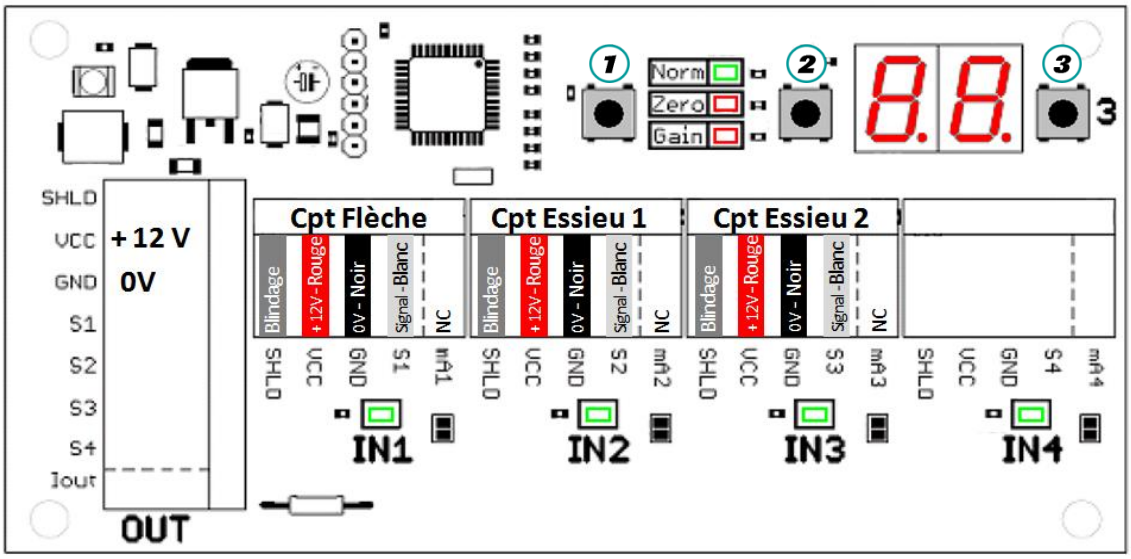
NB: The theoretical weight is displayed in Black; it alternates with the actual weight which is greyed out every 5 seconds to enable comparison.

Mounting or replacing an EPSIMETAL AX sensor requires specific equipment:

- Torque wrench
- A connection unit to adjust the EPSILOG JB-AX sensor OFFSET: ref 50500450

a) Connect the sensor(s) to be installed to the EPSILOG JB-AX connection unit (see plan below)





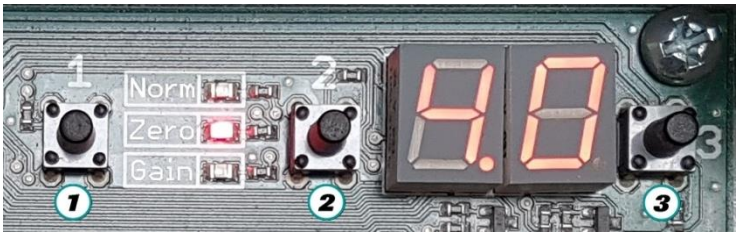
b) Before assembly, check the sensor's OFFSET: (basic voltage signal)

- Display the channel of the sensor concerned with button ①. The LED **IN1** – (boom), **IN2** (axle 1) and **IN3** (axle 2) lights up green when the channel is selected.
- The display indicates the voltage for the channel sensor concerned. **Make sure the voltage is 2.5 V**. If it is not, adjust the OFFSET:
  - When the channel is select, press button ②, the **"Zero"** indicator lights up red. Using button ③, increase the display's value to 2.5 (1 press = 0.5)
  - Press button ② again. The **"Gain"** indicator lights up red. Make sure that the value is at 1.0. If it is not, correct it with button ③
  - To save the OFFSET, press and hold button ①. While saving, the channel's LED flashes and the display shows two dashes.
- Do the same for the other sensors if necessary

⚠ **The sensors must be mounted to the spreader with the machine empty and coupled to the tractor.**

c) Position the sensor(s) on the machine. Tighten the screws alternately by 1/8 turn monitoring the signal. **The signal must remain within the range 2.5 ± 0.5 V**
Tighten the screws **to 30 Nm of torque**

d) Set the sensor OFFSET to 4.0 V



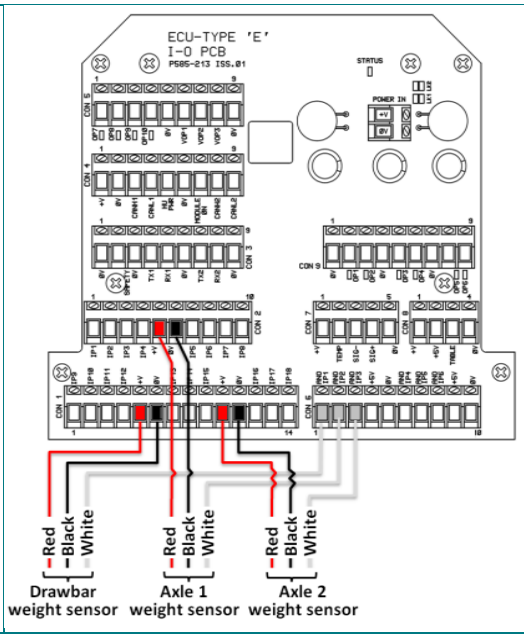
- Display the channel of the sensor concerned with button ①. The LED **IN1** – (boom), **IN2** (axle 1) and **IN3** (axle 2) lights up green when the channel is selected. The display indicates the voltage for the channel sensor concerned.
- Press button ②, the **"Zero"** indicator lights up red. Using button ③, increase the display's value to **4.0** (1 press = 0.5)
- Press button ② again. The **"Gain"** indicator lights up red. Make sure that the value is at 1.0. If it is not, correct it with button ③
- To save the OFFSET, press and hold button ①. While saving, the channel's LED flashes and the display shows two dashes.
- Do the same for the other sensors if necessary

e) Disconnect the connection unit

f) Run the sensor cables

g) Connect the sensors to the CAN Module connection unit

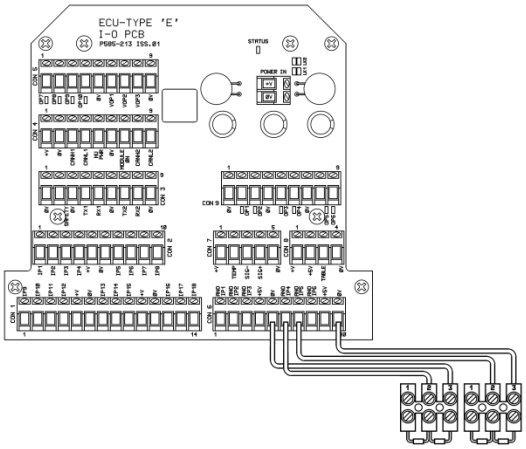
h) Carry out a full weighing calibration (see file B11)



1. CAN module characteristic

The CAN module is used on the ECONOV machines, the machines equipped with weighing or auto boom valves (RD3).

- For the Econov machines, it will enable the spout actuators and Tribord actuator to be commanded.
- For the Polyvrac XTs equipped with weighing, the CAN module supplies the sensors and te output signal measurement. The information communicates with the Vision console in CAN BUS. The connection unit also has a tilt meter which corrects the weighing.
- For the models equipped with automatic boom valves, the module enables the valves and the information return to the console to be commanded.

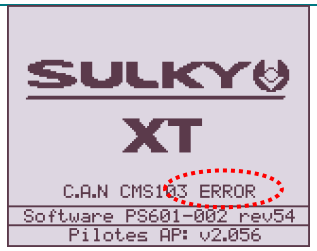


2. Alarm display:

When the Vision console is started up, it tries to detect the presence of a CAN module. The start screen shows us the result. When a module is detected, the console displays the ECU software version

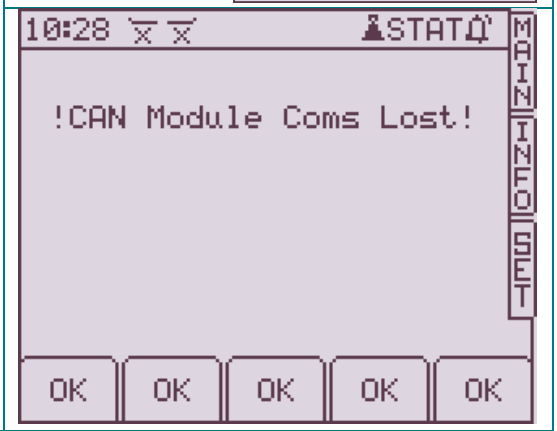
⚠ Caution, if, following a breakdown, the Vision console does not detect the CAN module on start-up, it will not display any alarms later.

When a CAN link has been established on start-up, but is interrupted while working, the alarm opposite is activated.



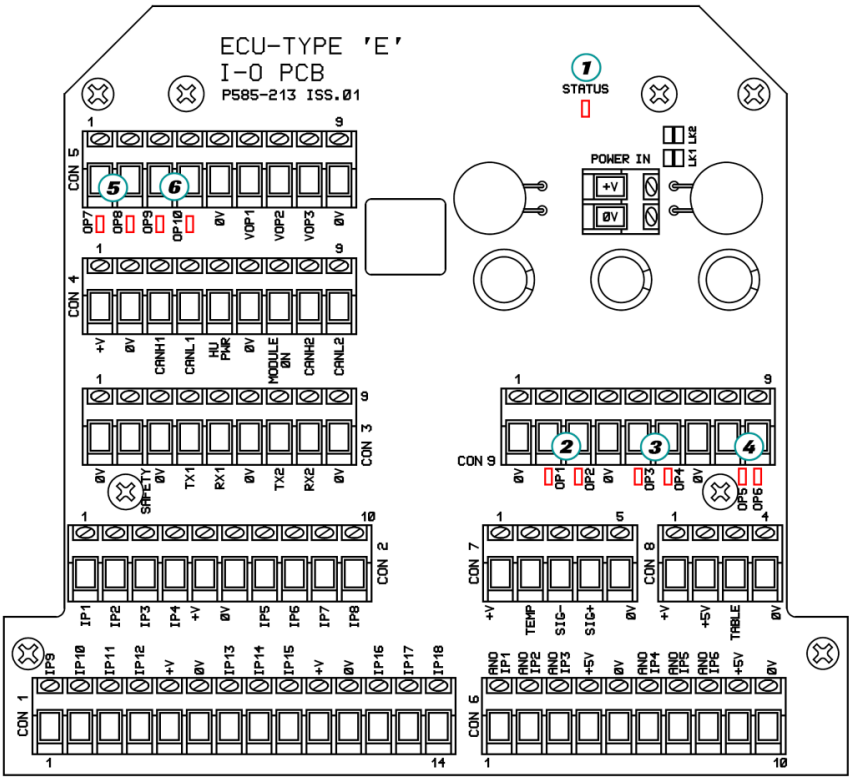
CAN module absent

CAN module present + ECU software version



3. Diagnostic LED:

The ECU is equipped with a diagnostic LED:



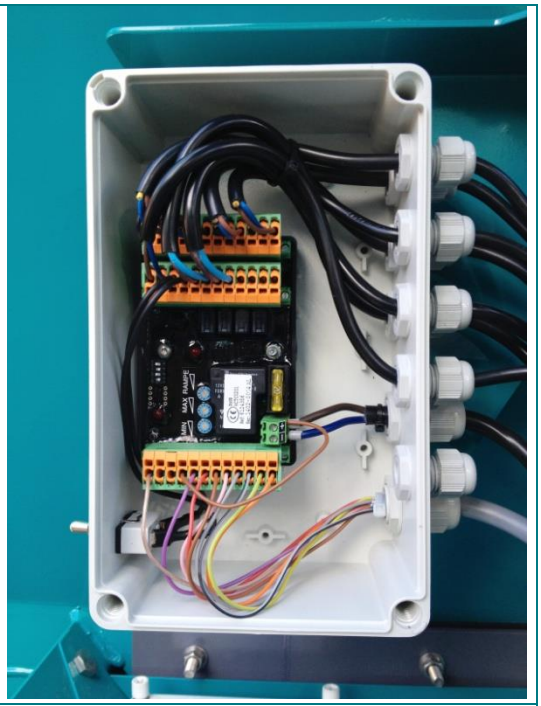
REF.	NAME	COMMENTS
①	STATUS	Flashing red => CAN link ok Fixed red => Under voltage but no CAN link
The diodes marked **OP** *light up in red when the actuator is commanded*		
②	**OP 1**	ECONOV: Left spout actuator rod out
	OP 2	ECONOV: Left spout actuator rod in
③	**OP 3**	ECONOV: Right spout actuator rod out
	OP 4	ECONOV: Right spout actuator rod in
④	**OP 5**	TRIBORD: Tribord actuator rod out
	OP 6	TRIBORD: Tribord actuator rod in
⑤	**OP 7**	AUTO BOOM VALVE: Left actuator actuator rod out
	OP 8	AUTO BOOM VALVE: Left actuator actuator rod in
⑥	**OP 9**	AUTO BOOM VALVE: Right actuator actuator rod out
	OP 10	AUTO BOOM VALVE: Right actuator actuator rod out

Joystick connection unit

Spare parts references: ⇨ Connection unit: 50500500

With the joystick, the connection unit controls the hydraulic commands, the manual boom valve settings and regulates the hydraulic motors.

This connection unit, which is positioned at the front of the machine, has its own 12 V power supply and is protected by a 20 A fuse inside the unit



Hydraulic motor regulation setting:

The connection unit's internal electronics manage a proportional hydraulic valve to drive the spreading booms or disks. The proportional valve's usage range and its auger start-up and shutdown reactions during field end sequences may be adjusted.
If the unit is replaced, the different setting operations must be carried out.

The settings must be carried out on the potentiometers in the electro-hydraulic management unit. They must be carried out under "working" conditions: engine rate, oil temperature, hydraulic rate, etc..

1. <u>MIN setting:</u>

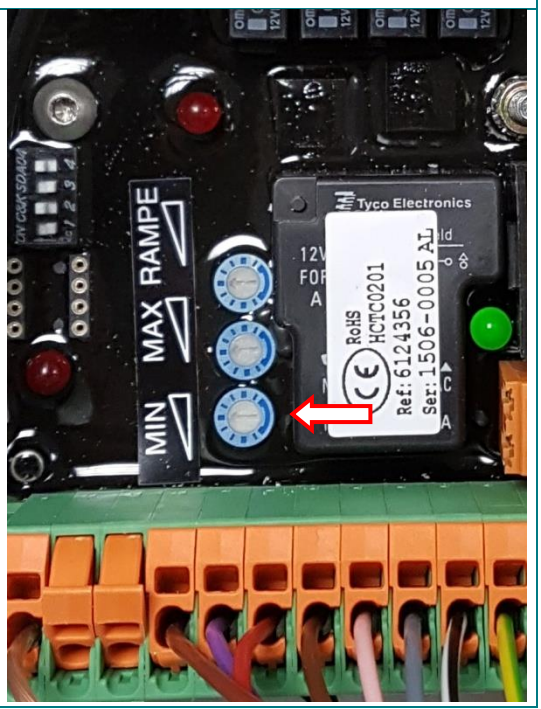
a) Supply the machine's hydraulic unit with a tractor rate which corresponds to the spreading system's requirements, i.e.:
- *50 to 55 l/min (BOOM)*
- *55 to 60 l/min (WET DISK 125 cm3 motor, with or without BOOM)*
- *70 to 75 l/min (GRANULATED DISKS 125 cm3 motor, with or without BOOM and WET DISKS)*

c) Place the potentiometer on the handle to ¼ of its rotation starting from released position.

d) Set the handle switch to spreading position to run the spreading system motors.

e) Act on the "MIN" potentiometer until the motors gradually stop, stop in shut down position.

The spreading system motor minimum rate is now set: 0 rpm.



2. MAX setting:

a) Supply the machine's hydraulic unit with a tractor rate which corresponds to the spreading system's requirements, i.e.:
- *50 to 55 l/min (BOOM)*
- *55 to 60 l/min (WET BULK DISK 125 cm3 motor, with or without BOOM)*
- *70 to 75 l/min (GRANULATED DISKS 125 cm3 motor, with or without BOOM and WET BULK DISKS)*

b) Place the potentiometer on the handle to full rotation in engaged direction.

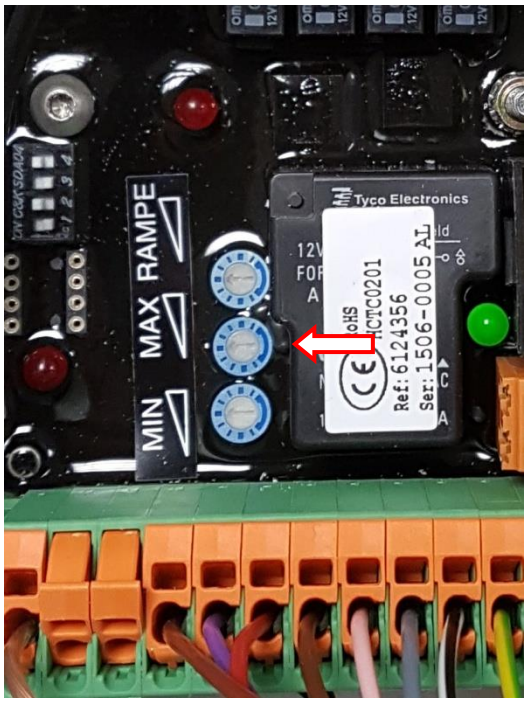
c) Set the handle switch to spreading position to run the spreading system motors.

d) Act on the "MAX" potentiometer until the following rotation is gradually obtained:

SPREADING SYSTEM	ROTATION RATE
Booms only	190 rpm (+/- 20)
Wet Bulk disks with or without booms	430 rpm (+/- 30)
Granulated disks with or without wet bulk booms / disks	540 rpm (+/- 30)

(Check it using a tachometer, following the general safety instructions, or using the electronic console).

The spreading system motor maximum rate is now set:



3. Acceleration/deceleration boom setting

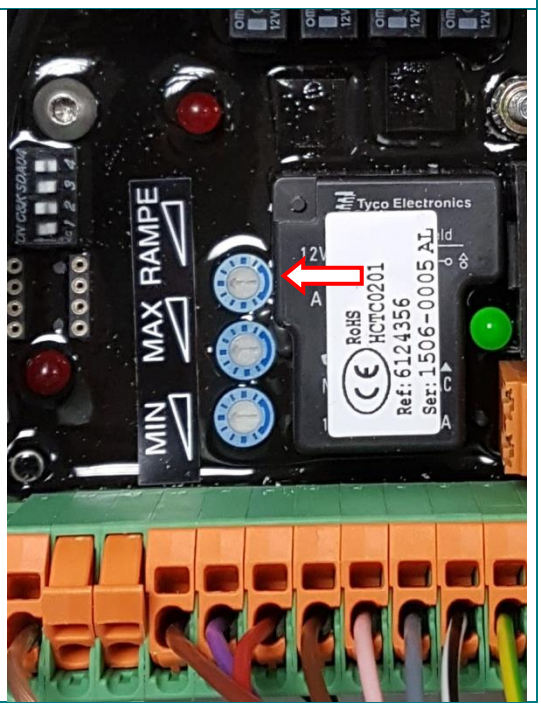
This applies the setting for the spreading system motor rotation start-up and shutdown, in particular with booms, in relation to the slope lifting and lowering during "field end" function.

a) Make sure that the selector button on the connection unit is in boom position.

b) Activate the "field end" stoppage function on the handle and act on the "BOOM" potentiometer until the motors stop when the slopes lift.

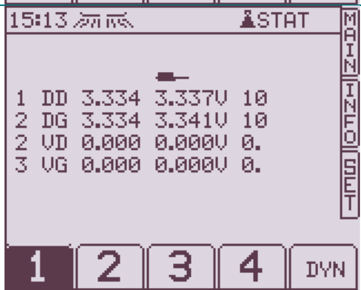
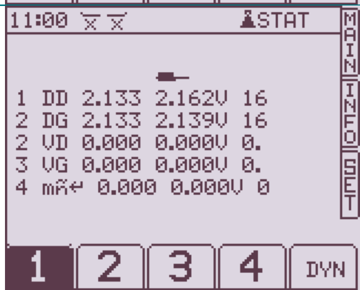
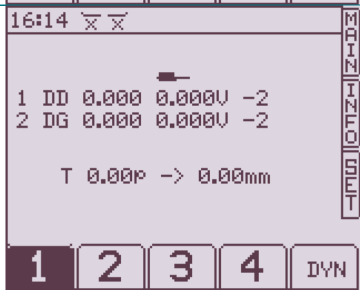
c) Activate the "field end start" function on the handle and make sure that the motors start rotating immediately as the slopes are lowered.

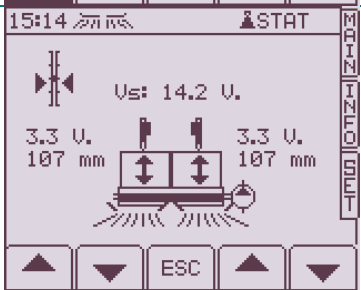
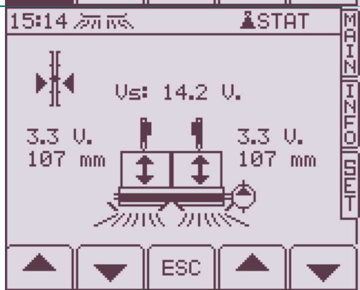
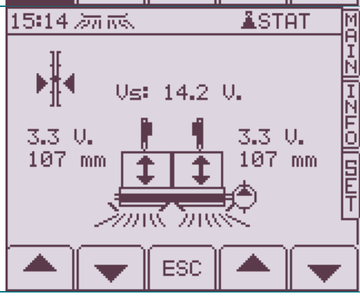
The "field end" function is now set.



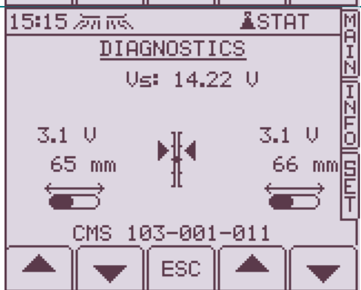
To access the diagnostic menus, press [button] then [button]

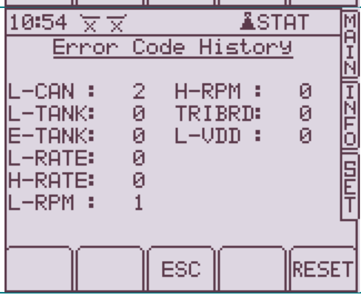
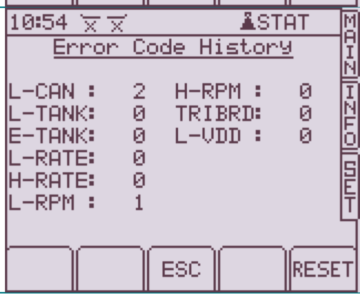
<table>
<tr><th></th><th>BOOM MODE</th><th>GRANULATED DISK MODE</th><th>WET BULK DISK MODE</th></tr>
<tr><td>Diagnostic home page</td>
<td>  </td>
<td>  </td>
<td>  </td></tr>
<tr><td>Page 1

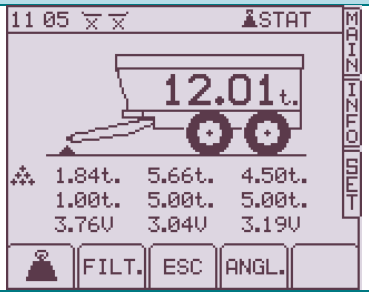
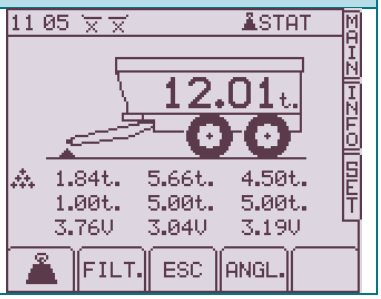
Not used</td>
<td>  </td>
<td>  </td>
<td>  </td></tr>
<tr><td>Page 2

Flow rate actuators</td>
<td>  </td>
<td>  </td>
<td>  </td></tr>
<tr><td>Page 3

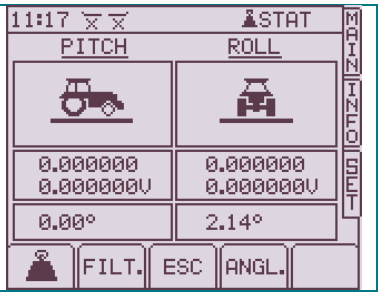
Boom mode: boom valve actuators

Granule mode: spout actuators</td>
<td>  </td>
<td>  </td>
<td>Empty</td></tr>
<tr><td>Page 4

Alarm log</td>
<td>  </td>
<td>  </td>
<td>  </td></tr>
</table>

	BOOM MODE	GRANULATED DISK MODE	WET BULK DISK MODE
Page DYN Load on the different sensors			

DYN page sub-menu

Page FILT. Weighing filter			Page ANGL. Weighing angle sensor	

In certain cases, the console may need to be reset (e.g. electric actuator command problem, etc.). But it is preferable to recover the data before reset.

Note: *This is the same procedure as for replacing the console.*

Retrieving the data before console RESET or replacement

(A value entry form is available on page 83)

A/ General setup

a) History:

Access the **SETUP** menu by pressing . Then press **2-Technician**

Enter the PIN code: "**1936**" and validate with

Select **9- Machine History**

The surface and total tonnage spread are displayed.

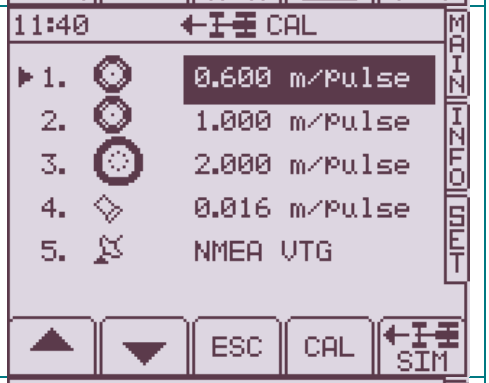
Press **ESC** twice.

b) Setting index

Access the **REG** and note the setting index:
6. INDICE ?

c) Forward movement coefficient:

In the **REG** menu press and read the values for the 4 saving positions. Press CAL to read a more precise value for each position.



Only for a GPS / Guide bar option

d) Port setup:

Access the **SETUP** menu by pressing .

Then press **4- General PF setup**

Select **5- GPS Baudrate** and read the baudrate.

Press **ESC**.

Select **6- Ports setup**

Read the choice for the **Top port** and the **Bottom port**

e) Alarm setup:

Access the **SETUP** menu by pressing .

Then press **1. Sensor configuration**

Enter the PIN code: **1936** and

Read the values, in particular **Max. Weight:**

Press **ESC**.

Only for the SWPB weighing option

f) SWPB weighing option:

From the Sensor configuration menu, press

Enter the PIN code: **1936** and validate with

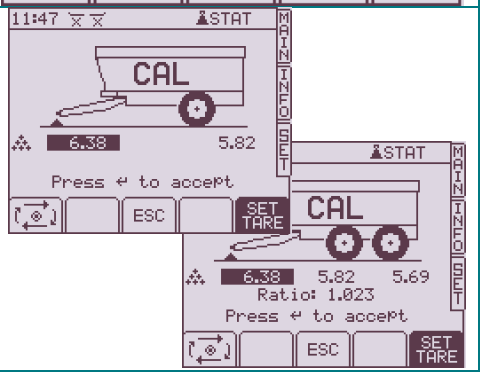
Read the type of **Axle:**

Go down with tour **CAL FACTORS** and validate

Read the values for each channel (boom, axle 1 and axle 2)

In the case of a spreader with Tandem axles, also read the **Ratio** value

Press **ESC** 3 times



The console has 3 user modes related to the spreading systems. The mode is selected when the console starts up.
The setup values for the modes used must be read.

B/ Boom mode setups

Start the console in mode: 

h) Working width

In the **REG** menu, press 

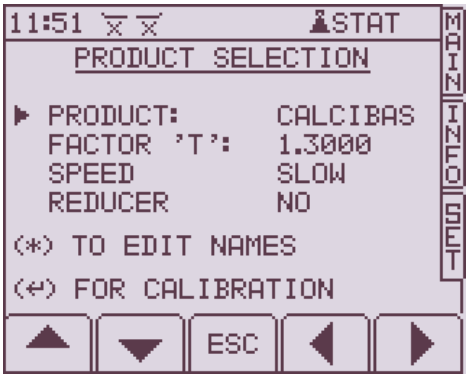
Read the working width

i) Products:

In the **REG** menu, press 

For each product, read the name, the **Factor 'T'**, the **SPEED** and whether the **REDUCER** is used or not.

Use  to scroll through the products



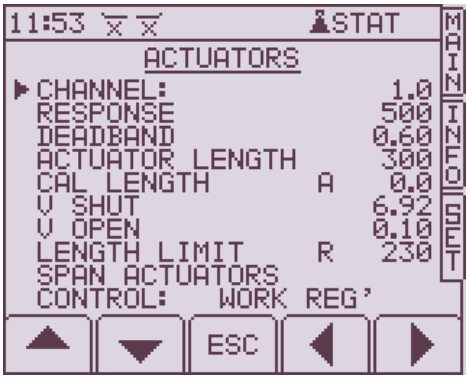
k) Electric rate actuator calibration:

Access the **SETUP** menu by pressing  . Then select **1. Sensor configuration** (key "1" on the number pad). Enter the PIN code: "**1936**" and validate with 

In the **Sensor configuration** menu, press  .

Read the following information for channels 1 and 2 using: 

- ⇨ **Actuator length**
- ⇨ **V SHUT**
- ⇨ **V OPEN**



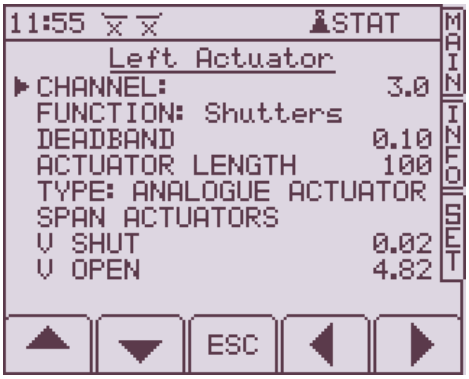
Only for the AUTO boom valve option (RD3)

l) AUTO boom valve acutator option

From the Actuators page, display **Channel: 3** then **Channel: 4** with 

Read the following information for channels 3 and 4:

- ⇨ **V SHUT**
- ⇨ **V OPEN**



C/ Setup in granulated disk mode

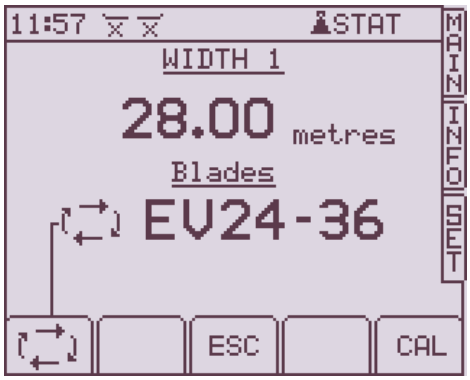
Start the console in mode:

o) Working width

In the **REG** menu, press

Read the working width

Read the blade play



p) Products:

In the **REG** menu, press

For the first product, read the name, the **Factor 'T'**, the **SPEED** and whether the **REDUCER** is used or not.

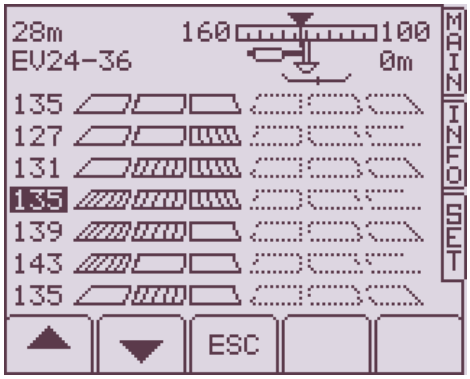
Press **ESC** and press then CAL.

Read the width spout setting

Press **ESC** twice to return to

Use to scroll to the next product

Repeat the operation to read the values



r) Electric rate actuator calibration:

Access the **SETUP** menu by pressing . Then select **1. Sensor configuration** (key "1" on the number pad). Enter the PIN code: "**1936**" and validate with

In the **Sensor configuration** menu, press .

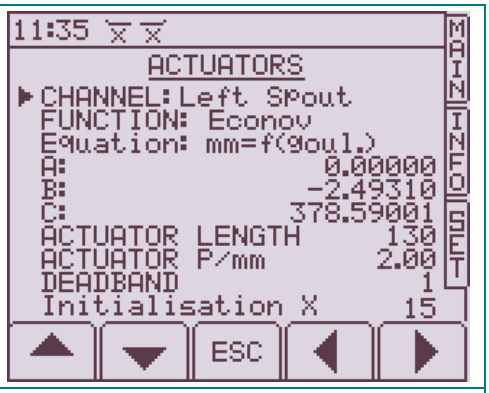
Read the following information for channels 1 and 2 using:

- ⇨ **Actuator length**
- ⇨ **V SHUT**
- ⇨ **V OPEN**

s) ECONOV actuator option

From the **Actuators** page, display **Channel: Left Spout** then **Channel: Right Spout** with ▶

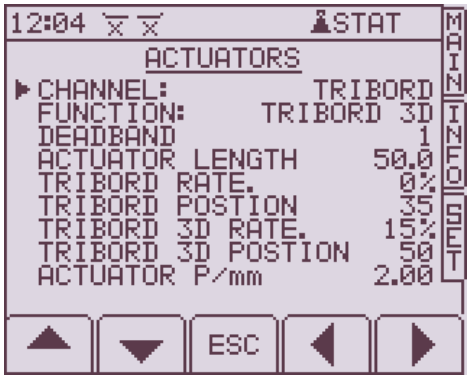
Read the **Function:** line to see whether ECONOV mode is activated or not.



t) TRIBORD option

From the Actuators page, display **Channel: TRIBORD** with ▶

Read the **Function:** line to see whether TRIBORD 3D is activated or not.



D/ Setup in Wet Bulk (VH) disk mode

Start the console in mode:

w) Working width

In the **REG** menu, press

Read the working width

x) Products:

In the **REG** menu, press

For each product, read the name, the **Factor 'T'**, the **SPEED** and whether the **REDUCER** is used or not.

Use to scroll through the products

z) Electric rate actuator calibration:

Access the **SETUP** menu by pressing . Then select **1. Sensor configuration** (key "1" on the number pad). Enter the PIN code: "**1936**" and validate with

In the **Sensor configuration** menu, press .

Read the following information for channels 1 and 2 using:

- ⇨ **Actuator length**
- ⇨ **V SHUT**
- ⇨ **V OPEN**

CONSOLE DATA FORM
VISION XT POLYVRAC

SULKY

CUSTOMER NAME: ..... **ADDRESS:** .....

TYPE OF SPREADER: ..... **SPREADER SERIAL No.:** .....

Software version: 601-0..... REV ..... **Vision console serial No.:** .....

A/ General setup

a) HISTORY

/ 2. Technician / PIN : 1936 / 7. Machine History	Tonnage :	Tonnes
	Surface :	Ha
	Time:	Hrs

b) SETTING INDEX

REG.	Indice :	

c) FORWARD MOVEMENT COEFFICIENTS

REG/	1 -	m / Pulse	☐
	2 -	m / Pulse	☐
	3 -	m / Pulse	☐
	4 -	m / Pulse	☐
	5 -	NMEA VTG	☐

d) GUIDE BAR OPTION:

YES ☐ (fill in below) NO ☐

/ 4. General PF setup/ 5. GPS Baudrate.	Baudrate :	4800 ☐	9600 ☐	19200 ☐
/ 4. General PF setup/ 6. Ports setup	Top port:	GPS Only ☐	Other: ..... ☐
	Bottom port:	RDS data module ☐	Other: ..... ☐

e) ALARM SETUP

/ 1. Sensor configuration / PIN : 1936 / 1. Alarm setup	Out of target:	*0 %*
	Max. Weight:	..... *kg*
	Min Weight:	*0 kg*
	Blockage:	*YES*
	Actuator coeff :	*0.150 V*
	Speed low:	*0.50 km*
	Speed high:	*25.0 km*

f) SWPB WEIGHING OPTION

YES ☐ (fill in below) NO ☐

/ 1. Sensor configuration / PIN : 1936 / / PIN : 1936	Function:	Weighing ☐	Not used ☐	
	Axles:	1 Axle ☐	Bogey ☐	Twin ☐
	Min. Weight:	*0.250 t.*		
	WEIGHT RESOLUTION :	*50 kg*		

/ 1. Sensor configuration / PIN : 1936 / / PIN : 1936 / CAL FACTORS	CAL Boom:	
	CAL Axle 1:	
	CAL Axle 2:	
	Ratio :	

B/ Setup in BOOM MODE

g) USE OF BOOM MODE	YES ☐ (fill in below)	NO ☐
Start the console in mode: 		

h) WORKING WIDTH

REG/	Width:	m

i) PRODUCTS

REG/

	Product name	Factor 'T'	Reducer	Speed
A -			YES ☐ NO ☐	L ☐ M ☐ R ☐
B -			YES ☐ NO ☐	L ☐ M ☐ R ☐
C -			YES ☐ NO ☐	L ☐ M ☐ R ☐
D -			YES ☐ NO ☐	L ☐ M ☐ R ☐
E -			YES ☐ NO ☐	L ☐ M ☐ R ☐
F -			YES ☐ NO ☐	L ☐ M ☐ R ☐
G -			YES ☐ NO ☐	L ☐ M ☐ R ☐
H -			YES ☐ NO ☐	L ☐ M ☐ R ☐

j) AUGUR ROTATION SENSOR

/ 1. Sensor configuration / PIN : 1936 / 4. AUGUR RRP	AUGUR RRP:	*1.00 PPR*

k) RATE ACTUATOR CALIBRATION

/ 1. Sensor configuration / PIN : 1936 /

(CHANNEL 2:)

	CHANNEL 1 (Left Rate)	CHANNEL 2 (Right Rate)
Response:	*500*	*500*
Deadband:	*0.6*	*0.6*
Actuator length:	*300*	*300*
Cal length:	*A*	*A*
V SHUT		
V OPEN		
Length limit	*R 230*	*R 230*

l) BOOM VALVE ACUTATOR OPTION — YES ☐ (fill in below) — NO ☐

/ 1. Sensor configuration / PIN : 1936 / / / /

	CHANNEL 3 (Left Actuator)	CHANNEL 4 (Right Actuator)
Function:	*Actuator*	*Actuator*
Deadband:	*0.10*	*0.10*
Actuator length:	*100*	*100*
V SHUT :		
V OPEN :		

m) GATE SETUP

/ 3. Factory config / PIN : 0035 / 1. Machine options

GATE WIDTH:	*0.80*
REDUCER COEFF:	*0.50*
Pi :	*25*
Pq :	*- 50 (for "-" symbol)*

C/ Setup in GRANULATED DISK MODE

n) USE OF GRANULATED DISK MODE	YES ☐ (fill in below)	NO ☐

Start the console in mode:

o) WORKING WIDTH

REG/	Width:	m			
	(ECONOV) Set of blades:	EV 18-28 ☐	EV 24-36 ☐	EV 32-44 ☐	EV 40-50 ☐

p) PRODUCTS

REG/ A→H and REG / / CAL.

	Product name	Factor 'T'	Reducer	Speed	Width marker
A -			YES ☐ NO ☐	L ☐ M ☐ R ☐	
B -			YES ☐ NO ☐	L ☐ M ☐ R ☐	
C -			YES ☐ NO ☐	L ☐ M ☐ R ☐	
D -			YES ☐ NO ☐	L ☐ M ☐ R ☐	
E -			YES ☐ NO ☐	L ☐ M ☐ R ☐	
F -			YES ☐ NO ☐	L ☐ M ☐ R ☐	
G -			YES ☐ NO ☐	L ☐ M ☐ R ☐	
H -			YES ☐ NO ☐	L ☐ M ☐ R ☐	

q) DISK ROTATION SENSOR

/ 1. Sensor configuration / PIN : 1936 / 4. Disk setup

RRP disk:	*1.00 PPR*
Low RPM:	*With sensor = 480 RPM / Without sensor =0 RPM*
High RPM:	*580 RPM*

r) RATE ACTUATOR CALIBRATION

/ 1. Sensor configuration / PIN : 1936 /

(CHANNEL 2:)

	CHANNEL 1 (Left Rate)		CHANNEL 2 (Right Rate)	
Response:	*500*		*500*	
Deadband:	*0.6*		*0.6*	
Actuator length:	DPB = *300*	ECONOV = *250*	DPB = *300*	ECONOV = *250*
Cal length:	*A*		*A*	
V SHUT				
V OPEN				
Length limit	DPB= *D 200*	ECONOV=*D 250*	DPB= *D 200*	ECONOV=*D 250*

s) ECONOV OPTION	YES ☐ (fill in below)	NO ☐

/ 1. Sensor configuration / PIN : 1936 / / / /

	Left Spout CHANNEL	Right Spout CHANNEL
Function:	Not used ☐ Econov ☐	Not used ☐ Econov ☐
Actuator length:	*130*	*130*
Pulse actuator/mm:	*2.00*	*2.00*
Deadband:	*1*	*1*
Initialisation X :	*15*	*15*

t) TRIBORD OPTION		YES ☐ (fill in below)	NO ☐
/ 1. Sensor configuration / PIN : 1936 / / / / / /	Function:	Not used ☐	TRIBORD 3 D ☐
	Deadband:	2	
	Actuator length:	50.0	
	MS Border Output :	0 %	
	Output position :	35	
	TRIBORD 3D RATE :	15 %	
	RIBORD 3D POSITION :	50	
	Pulse actuator/mm:	2.00	

u) GATE SETUP			
		DPB	ECONOV
/ 3. Factory config / PIN : 0035 / 1. Machine options (for "-" symbol)	GATE WIDTH:	0.80	0.58
	REDUCER COEFF:	0.50	0.50
	Pi :	25	40
	Pq :	- 50	- 62
	Manual control	X	✓

D/ Setup in WET BULK (VH) DISK MODE

v) USE OF WET BULK DISK MODE	YES ☐ (fill in below)	NO ☐
Start the console in mode:		

w) WORKING WIDTH

REG/	Width:	m

x) PRODUCTS

		Product name	Factor 'T'	Reducer	Speed
REG/	A -			YES ☐ NO ☐	L ☐ M ☐ R ☐
	B -			YES ☐ NO ☐	L ☐ M ☐ R ☐
	C -			YES ☐ NO ☐	L ☐ M ☐ R ☐
	D -			YES ☐ NO ☐	L ☐ M ☐ R ☐
	E -			YES ☐ NO ☐	L ☐ M ☐ R ☐
	F -			YES ☐ NO ☐	L ☐ M ☐ R ☐
	G -			YES ☐ NO ☐	L ☐ M ☐ R ☐
	H -			YES ☐ NO ☐	L ☐ M ☐ R ☐

y) AUGUR ROTATION SENSOR

/ 1. Sensor configuration / PIN : 1936 / 4. Disk setup	RRP disk:	*1.00 PPR*
	Low RPM:	*300 RPM*
	High rotation:	*450 RPM*

z) RATE ACTUATOR CALIBRATION

		CHANNEL 1 (Left Rate)	CHANNEL 2 (Right Rate)
/ 1. Sensor configuration / PIN : 1936 /	Response:	*500*	*500*
	Deadband:	*0.6*	*0.6*
	Actuator length:	*300*	*300*
	Cal length:	*A*	*A*
(CHANNEL 2:)	V SHUT		
	V OPEN		
	Length limit	*V 300*	*V 300*

aa) GATE SETUP

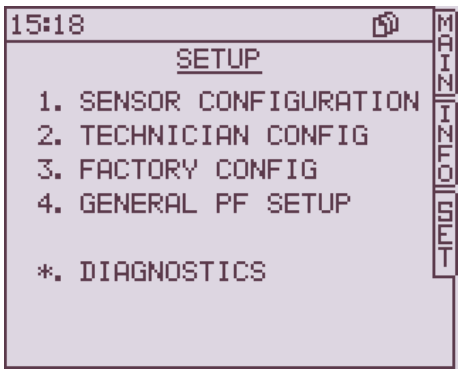
/ 3. Factory config / PIN : 0035 / 1. Machine options	GATE WIDTH:	*0.80*
	REDUCER COEFF:	*0.50*
	Pi :	*25*
	Pq :	*- 50 (for "-" symbol)*

May be used for photocopying

Performing the RESET

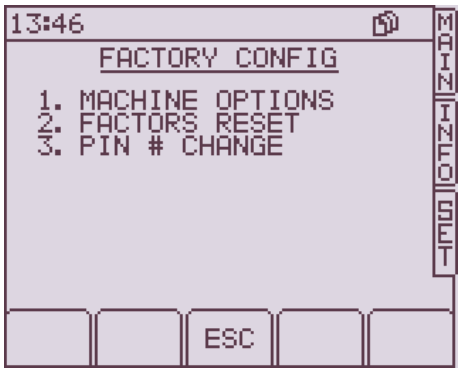
a) Display the **SETUP** menu by pressing . Then select **3. Factory config** with the number pad.

b) The console requests the PIN code: Type "**0035**" and validate with .



c) In the **Factory config** menu select **2. Factors reset** with the number pad.

d) The console requests the PIN code again: Type "**0035**" and validate with .



e) Press a first time.

f) The unit asks **"Are You Sure? "**. You must validate again.

g) The console displays **"All data erased"**. The reset is complete.

After the RESET, you must reprogram the values

The reset restores French as the default language. Foreign languages are selected in the menu **"REG"** */* **4. Language**

Setup for a new console or after RESET

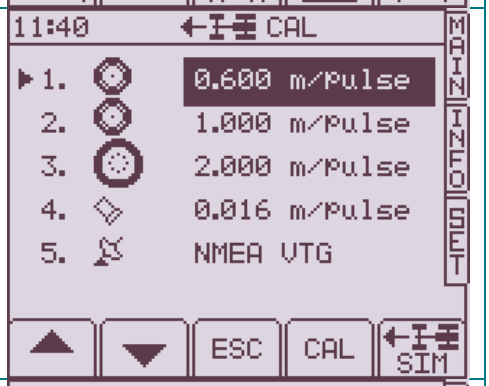
A/ General setup

b) Setting index:

Access the **REG** menu and select **"7. INDICE"** using the number pad. Select the letter with the ◄ ► keys, then validate before selecting the number in the same way.

c) Forward movement coefficient:

In the **REG** menu, press [?]
For each position saved, press [CAL] and enter the coefficient in the first line. Validate with [↵] .
Remember to select the position used before exiting the menu
If NMEA VTG is selected, adjust the ports



Only for a GPS / Guide bar option

d) Port setup:

Access the **SETUP** menu by pressing [⚙].

Then press **4- General PF setup**

Select **5- GPS Baudrate**

Choose the BAUD rate with ▲ ▼ and validate

Press **ESC**.

Select **6- Ports setup**
Set up the **Top port** and the **Bottom port** using the keys at the bottom of the screen and validate.
Press **ESC** 2 times

e) Alarm setup:

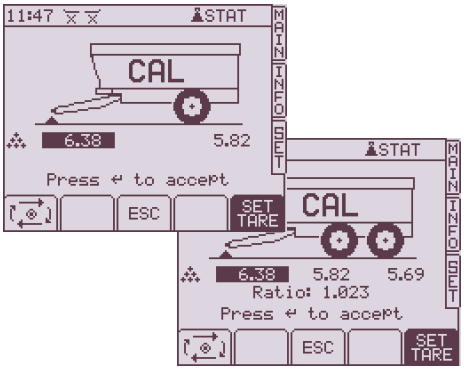
Access the **SETUP** menu by pressing .
Then press **1. Sensor configuration**
Enter the PIN code: **1936** and
Indicate the **Max. Weight:** value using the number pad and validate.
Check the other values
Press **ESC**.

Only for the SWPB weighing option

f) SWPB weighing option:

From the Sensor configuration menu, press
Enter the PIN code: 1936 and
In the **Function:** line, display **Weighing** instead of **Not used** using the keys.
In the **Axles:** line, indicate the type
Check the **Min. Weight:** value **0.250 t**
In the **WEIGHT RESOLUTION** line, enter **50 kg**
If the conditions allow, calibrate an angle sensor. (Spreader coupled and on flat ground): Select **Angle sensor** *and validate, then press the* SET ZERO key. *Press* **ESC** *to exit*

Select **CAL FACTORS** and validate
Use the number pad to mark the calibration values for each channel (boom, axle 1 and axle 2) Use the key to change channel
In the case of a spreader with Tandem axles, also read the **Ratio** value
Press **ESC** 3 times



The console has 3 user modes related to the spreading systems. The mode is selected when the console starts up.
Each mode used must be set up

B/ Boom mode setups

Start the console in mode: 

h) Working width

Access the **REG** menu by pressing  .

Enter the working width with the number pad and ↵

i) Products:

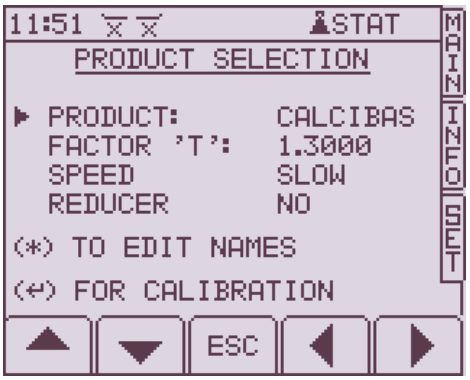
In the **REG** menu, press A→H

Press ✱ **To edit names**

Enter the product names with the alphanumerical pad and validate each line. Press **ESC** to exit

For each product, indicate the **Factor 'T'**, the **SPEED** and whether the **REDUCER** is used or not.

Use ◄ ► to scroll through the products



j) Augur rotation sensor:

Access the **SETUP** menu by pressing  . Then select **1. Sensor configuration** (key "1" on the number pad). Enter the PIN code: "**1936**" and validate with ↵

Select **4. AUGUR RRP**

For **AUGUR RRP** enter **1.00** and validate

Press **ESC**

k) Electric rate actuator calibration:

In the **Sensor configuration** menu, press  .

Check **Actuator length 300**

Go down to **V SHUT** then **V OPEN** and enter the values read before validating.

Go to **Length Limit**, display **R** with ◄ ► and indicate **230** with the keyboard

Go back up to **Channel:** and display the **Channel:** page **2.0** by pressing ►

Repeat the operations on Channel 2

Only for the AUTO boom valve option (RD3)

l) AUTO boom valve acutator option

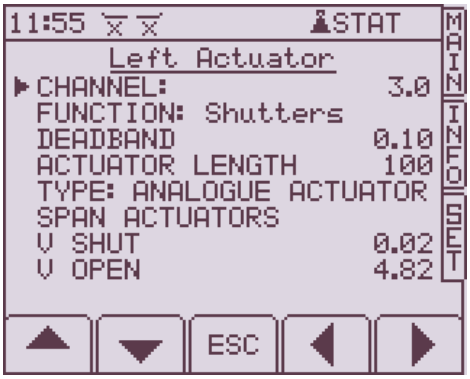
From the **Actuators** page, display **Channel: 3.0** with ▶
In the **Function:** line, display **Actuator** using ◀ ▶ if the machine is equipped with AUTO boom valves (RD3)
(If the spreader does not have AUTO boom valves AUTO (RD2) leave Not used)

Check **Deadband: 0.10**
and **Actuator length: 100**

Go down to **V SHUT** then **V OPEN** and enter the respective values before validating.

Go back up to **Channel:** and display the **Channel:** page **4.0** by pressing ▶
Repeat the operations on Channel 4

Press **ESC** 2 times



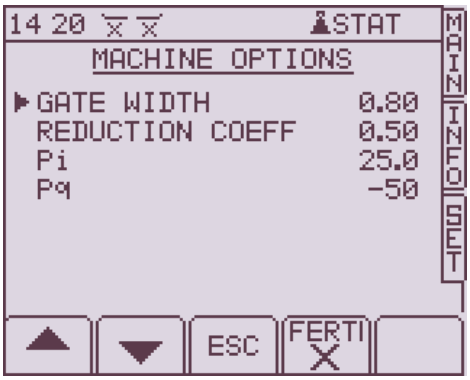
m) Gate setup:

Access the **SETUP** menu by pressing . Then select **3. Factory config**
Enter the PIN code: "**0035**" and validate with ↵
Press **1. Machine options**
Enter the values:

```
1.GATE WIDTH 0.80
2.REDUCER COEFF  0.50
3.PI              25.0
4.Pq               -50
```

The "-" *symbol is obtained by pressing* *

Press **ESC** to exit

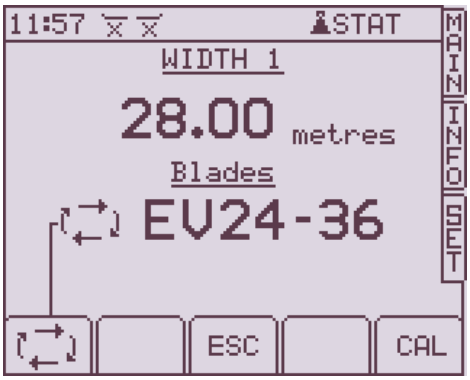


C/ Setup in granulated disk mode

Start the console in mode: 

o) Working width

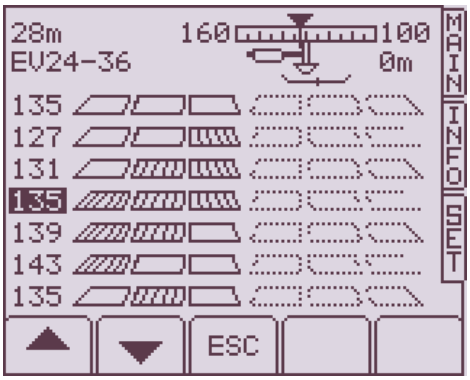
Access the **REG** menu by pressing .
Enter the working width with the number pad and
Using the key, select the set of blades



p) Products:

In the **REG** menu, press
Press **To edit names**
Enter the product names with the alphanumerical pad and validate each line. Press **ESC** to exit
For each product, indicate the **Factor 'T'**, the **SPEED** and whether the **REDUCER** is used or not.

Press **ESC** and press then .
Indicate the width spout setting with



Press **ESC** twice to return to
Use to scroll to the next product
Repeat the complete operation for each product

q) Disk rotation sensor:

Access the **SETUP** menu by pressing . Then select **1. Sensor configuration** (key "1" on the number pad). Enter the PIN code: "**1936**" and validate with
Select **4. Disk setup**
Enter the values and validate each line:

DISK PPR	**1.00 PPR**	
Low RPM	**480 RPM**	*if mounted sensor, if not* **0**
High RPM	**580 RPM**	

Press **ESC**

r) Electric rate actuator calibration:

In the **Sensor configuration** menu, press .

Enter **Actuator length** ___ *(DPB = 300 / ECONOV = 250)*

Go down to **V SHUT** then **V OPEN** and enter the values read before validating.

In **Length Limit**, display **D** with ◄ ► and indicate the corresponding value *(DPB = D 200 / ECONOV D 250)*

Go back up to **Channel:** and display the **Channel:** page **2.0** by pressing ►

Repeat the operations on Channel 2

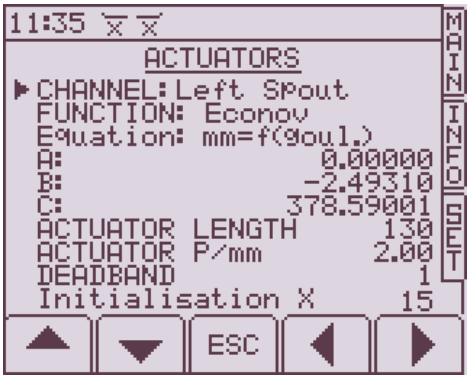
s) ECONOV actuator option

From the **Actuators** page, display **Channel: Left Spout** with ►

If it is an Econov machine, display on the **Function:** line **Econov** using ◄ ► (Otherwise leave "not used")

In the **Initialisation X** line, enter **15**

Go back up to the first line and display **Channel: Right Spout** with ► and repeat the operation.



t) TRIBORD option

From the **Actuators** page, display **Channel: TRIBORD** with ►

If it is a machine equipped with TRIBORD, display on the 2nd line **Function: TRIBORD 3D** using ◄ ► (Otherwise leave "not used")

Press **ESC** 2 times

u) Gate setup:

Access the **SETUP** menu by pressing . Then select **3. Factory config**

Enter the PIN code: "**0035**" and validate with

Press **1. Machine options**

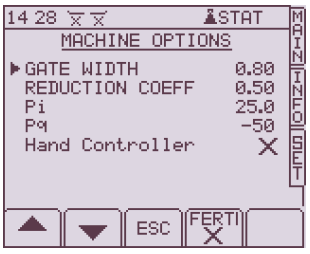
Enter the values:

	DPB	ECONOV
GATE WIDTH:	**0.80**	**0.58**
REDUCER COEFF	**0.50**	**0.50**
PI	**25.0**	**40.0**
Pq	**-50**	**-62**
Manual control	**X**	**✓**
RTS	FERTI ✕	FERTI ✓

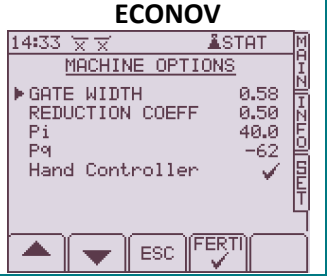
The "-" *symbol is obtained by pressing* *

Press **ESC** to exit

DPB



ECONOV



D/ Setup in Wet Bulk (VH) disk mode

Start the console in mode:

w) Working width

Access the **REG** menu by pressing .

Enter the working width with the number pad and

x) Products:

In the **REG** menu, press

Press **To edit names**

Enter the product names with the alphanumerical pad and validate each line. Press **ESC** to exit

For each product, indicate the **Factor 'T'**, the **SPEED** and whether the **REDUCER** is used or not.

Use to scroll through the products

y) Augur rotation sensor:

Access the **SETUP** menu by pressing . Then select **1. Sensor configuration** (key "1" on the number pad). Enter the PIN code: "**1936**" and validate with

Select **4. Disk setup**

Enter the values and validate each line:

DISK PPR 1.00 PPR
Low RPM 300 RPM
High RPM 450 RPM

Press **ESC**

z) Electric rate actuator calibration:

In the **Sensor configuration** menu, press .

Check **Actuator length 300**

Go down to **V SHUT** then **V OPEN** and enter the values read before validating.

In **Length Limit**, display **V** with and indicate **300** with the keyboard

Go back up to **Channel:** and display the **Channel:** page **2** by pressing

Repeat the operations on Channel 2

Press **ESC** 2 times

aa) Gate setup:

Access the **SETUP** menu by pressing . Then select **3. Factory config**

Enter the PIN code: "**0035**" and validate with

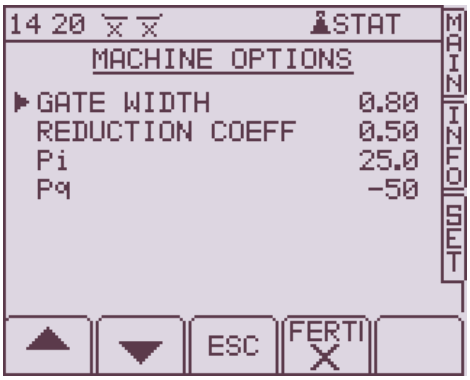
Press **1. Machine options**

Enter the values:

```
1.GATE WIDTH 0.80
2.REDUCER COEFF  0.50
3.PI              25.0
4.Pq               -50
```

The "-" *symbol is obtained by pressing*

Press **ESC** to exit



FERTITEST - RTS IMPORT

Only on ECONOV :

The FERTITEST is available at the website:
.sulky-burel.comwww.fertitest

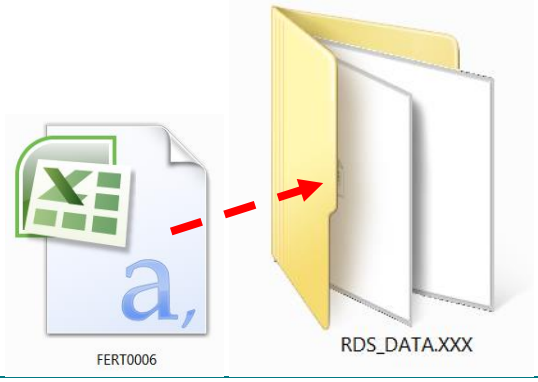
When the settings are displayed for an XT ECONOV spreader, a  *icon (RTS) is available.*
This icon is used to save a file with the rate (excluding set of pinions) and width setting data to an SD card.

The transfer is performed using an SD card with a maximum capacity of 2 GB.

The SD card must have a folder named:
RDS_DATA.XXX

Save the file produced by the Fertitest in this folder.

Do not modify the file name.



The file may be read using an "Excel" type spreadsheet package.
All the information is in box A1.

E.g.: **06,EXTRAN 33.5N (MONTOIR),0.96,-4.8,EV24-36,28.00,250.0**
Record name, Product name, factor 'T", factor 'K', set of blades, width, dose

On the Vision console with the SD card inserted:

In the **REG** menu and [A→H].

Select the product to be saved with [◀] [▶].

Go down to **"IMPORT FERTITEST DATA"** and validate with [↵].

The console displays a usage recommendation message. Press [OK].

The console then lists the products saved to the SD card. Choose the product you want and validate with [↵].

The settings are loaded automatically to the console.

Then select the set of pinions (L/M/R speed) on the console and on the machine and check the feasibility.

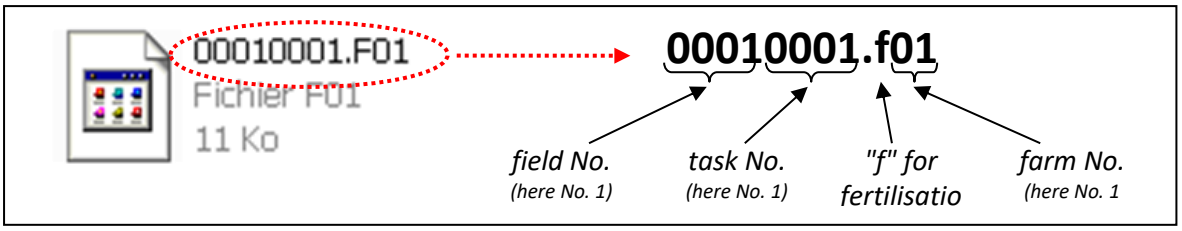
⚠ *The Fertitest setting values are provided for information. Sulky cannot be held responsible for any damage related to the use of information Fertitest values.*

A/ Pre-requisites

The Vision II console enables you to follow a dose modulation card. It must have GPS positioning information (Garmin antenna, guide bars). The GPS equipment must be connected to the top port at the rear of the console and requires configuration (performed on start-up).

The Vision II console is compatible with the modulation files saved in **RDS format** with **GPS WGS 84 projection**. They may be generated from the Farmstar expert portal, or by the following applications: Agrimap+, Bgrid, Farmworks, SMS, etc.
Caution, when creating the file (depending on the software packages) **do not use any accents or symbols in the names of farms, plots, fertiliser, etc.**

The file name must **respect the following case**:

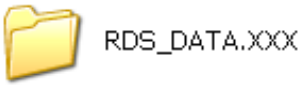


Do not modify the file name after it is created.

B/ Saving the modulation file to the SD card *(to be done on the PC)*

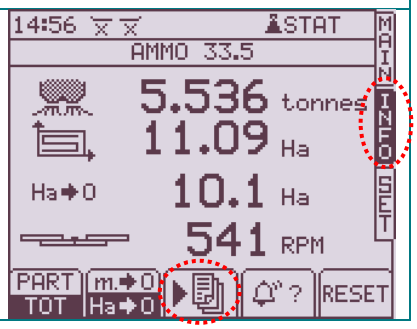
1/ Have an SD card with a maximum capacity of **2 GB**

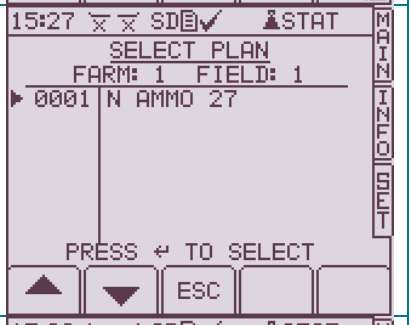
2/ Create a folder named **RDS_DATA.XXX** at the SD card's root

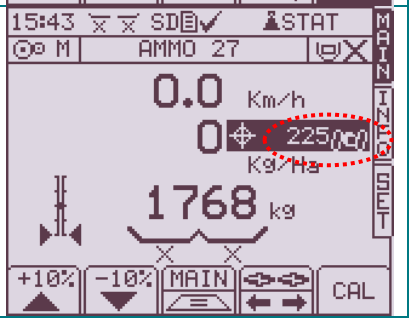


3/ Copy the modulation files inside the RDS_DATA.XXX folder
Be careful with files downloaded in .zip mode; remember to "extract files".
The modulation files must be saved directly in RDS_DATA.XXX (no sub-folders)

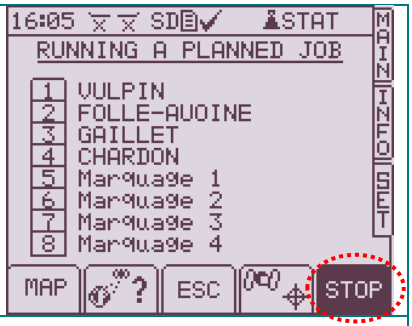
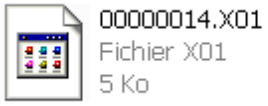
C/ Reading the card on the Vision II console

1/ Insert the card into the Vision console	
2/ Go to the **"INFO"** menu 3/ Press 	

4/ Press START	
5/ Select « 1. Apply from plan"	
6/ Enter the farm No. and validate (00010001.f01) 7/ Enter the field No. and validate (00010001.f01)	
8/ Select the task and validate	
9/ Press SKIP FUNCS	

10/ The console loads the modulation card – Wait a few moments 11/ The console displays **"storage? "** - Wait	
12/ The task loading is complete. Press **EPAN** *The page opposite enables markers to be positioned (foxtail, wild oats, bedstraw, thistles, etc.).*	
13/ The symbol indicates that the dose is being read from the modulation card. **Operation in the field remains identical.**	

D/ Closing the task

1/ Go to the **INFO** menu 2/ Press 3/ Press STOP	
Note that after spreading the console saves an actual application file to the SD card. It may be read from a specific SIG application (Agrimap+, Bgrid, etc.)	

II- DIAGNOSTIC PROCEDURES

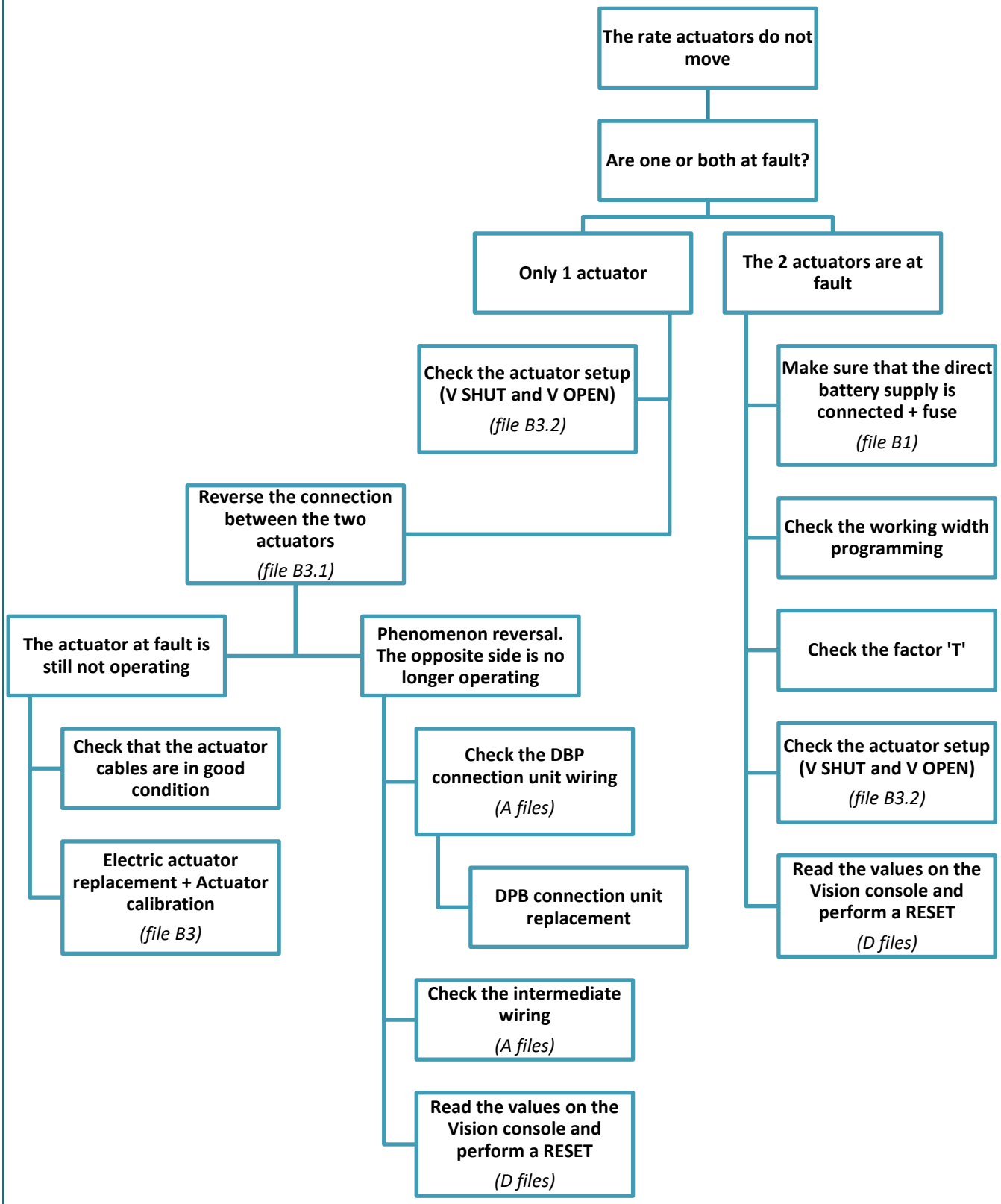
1- THE CONSOLE DOES NOT SWITCH ON

Pressing the button once is enough to switch the console on.

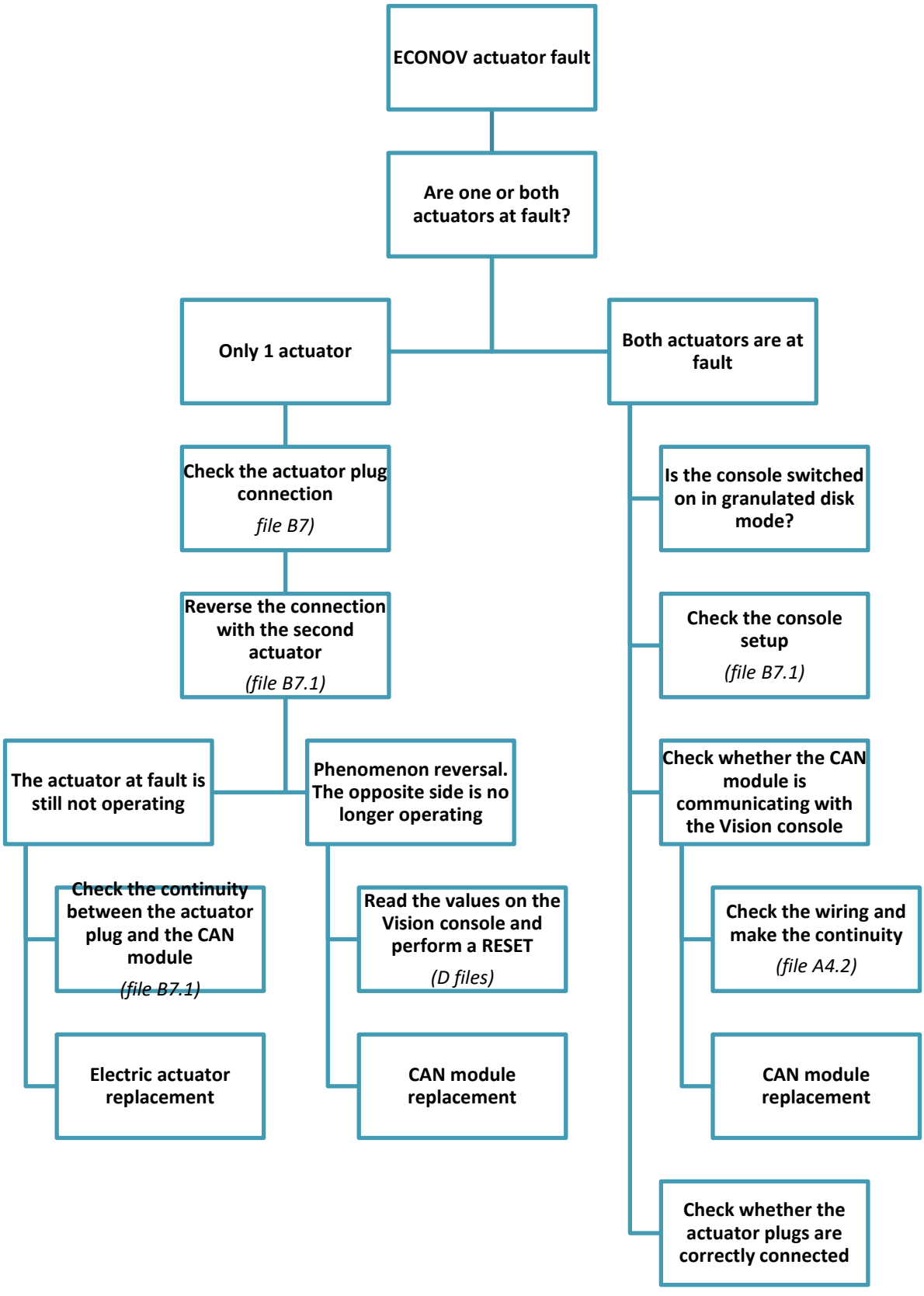
The console does not switch on

- **Check the fuses on the power lead** *(file B1)*
- **Check the power supply polarity** *(file B1)*
- **Check the connections** *(file B1)*
- **Carry out a standard exchange if it does not switch on**

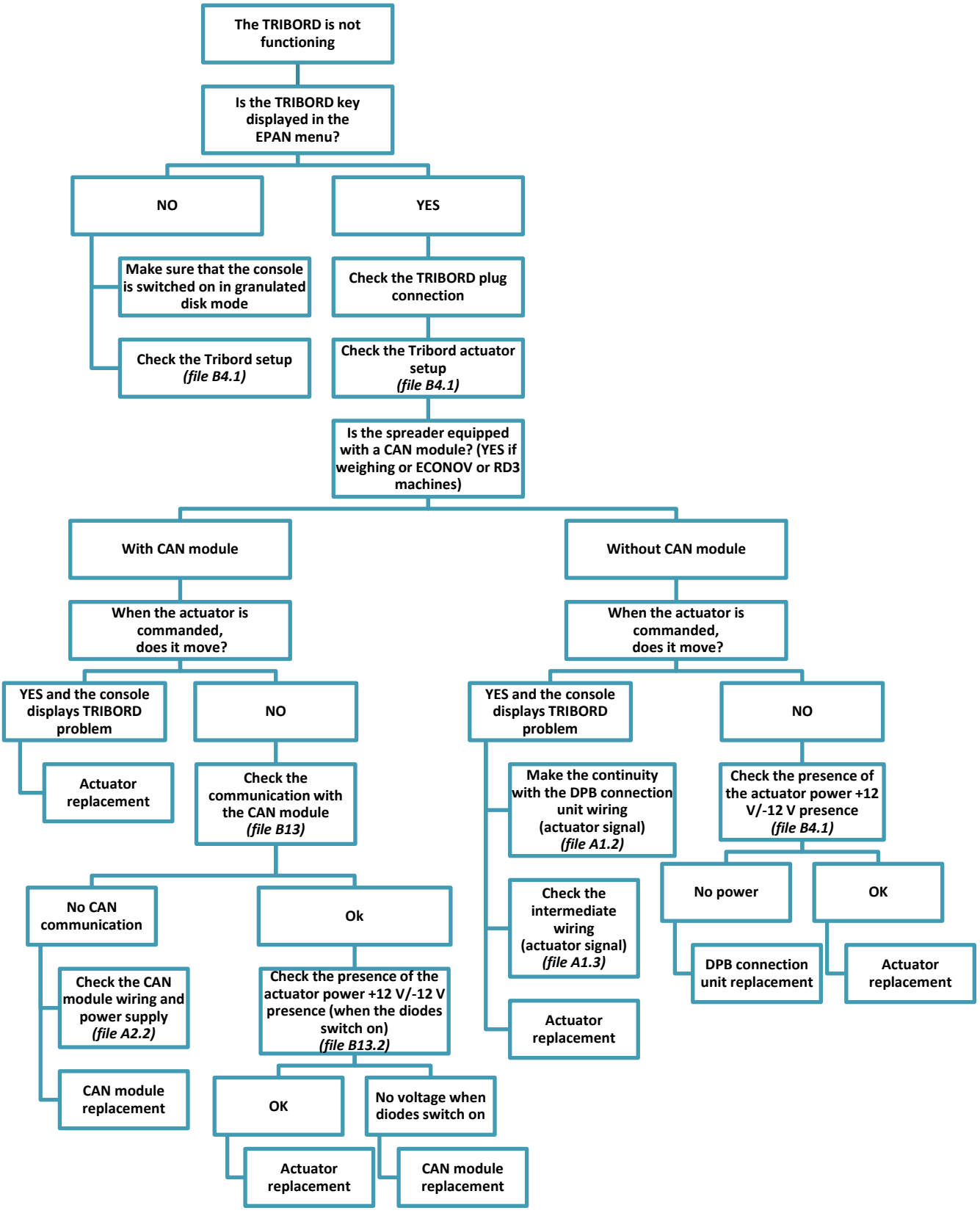
2- THE RATE ACTUATORS DO NOT MOVE



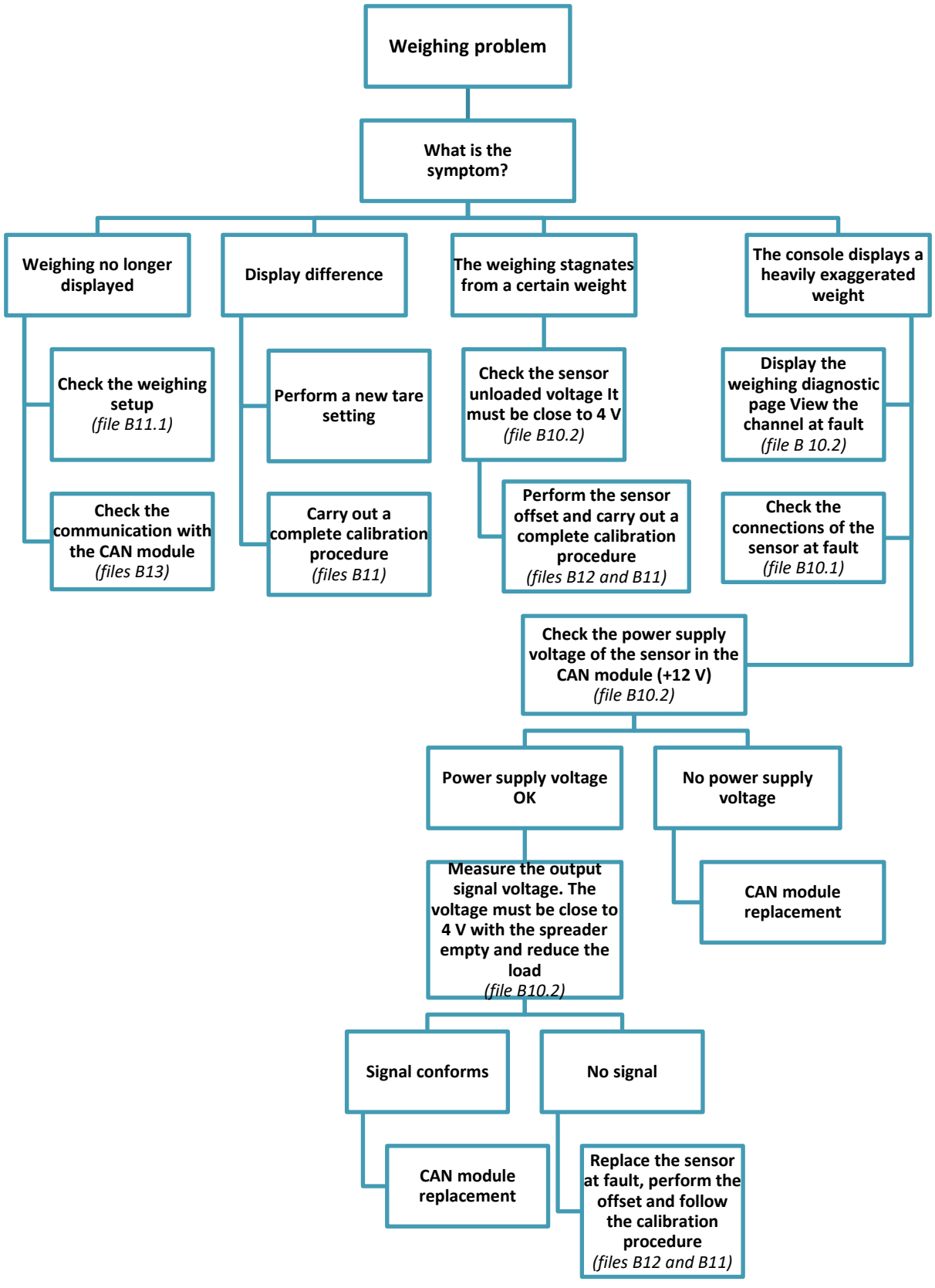
3- THE ECONOV ACTUATORS DO NOT MOVE



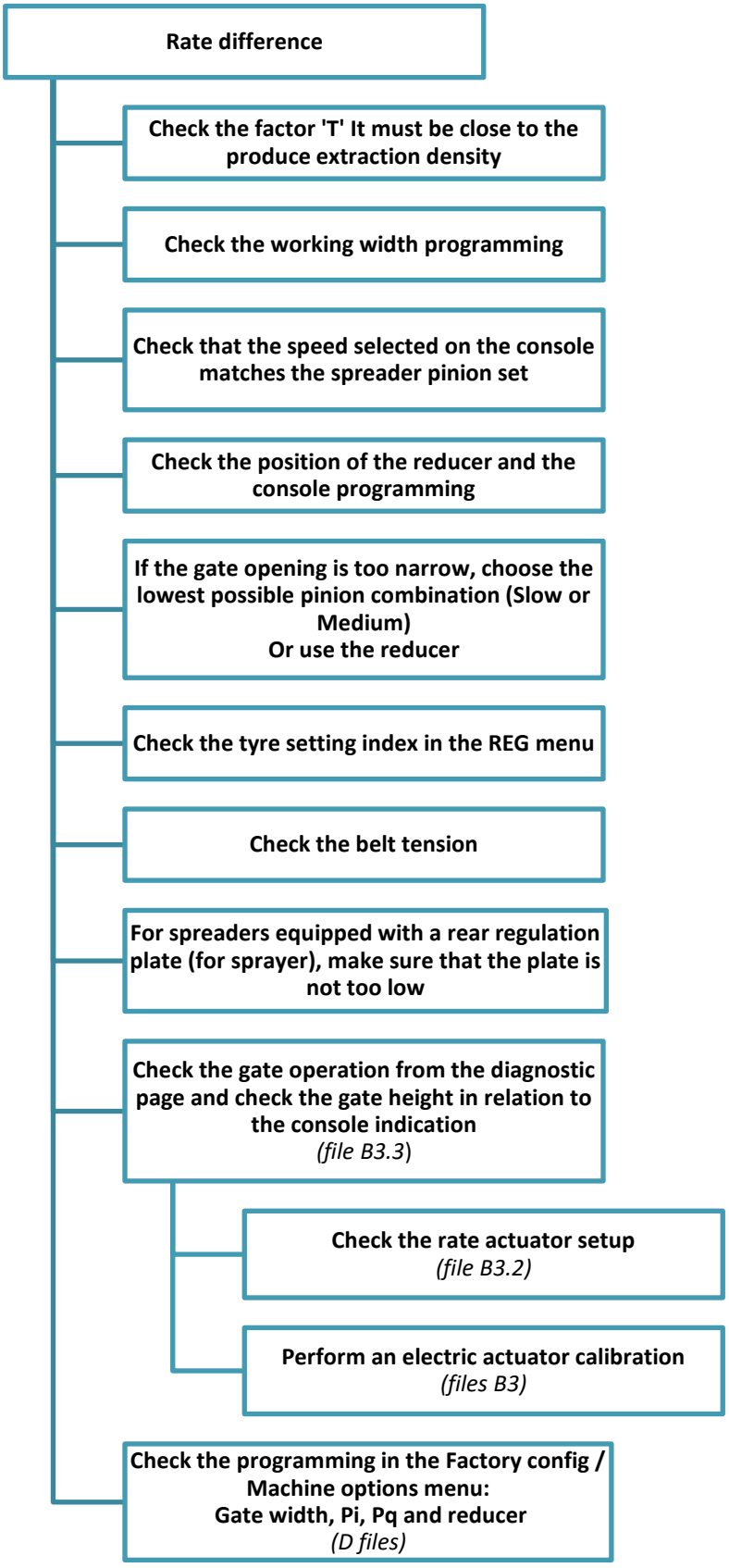
4- THE TRIBORD IS NOT FUNCTIONING

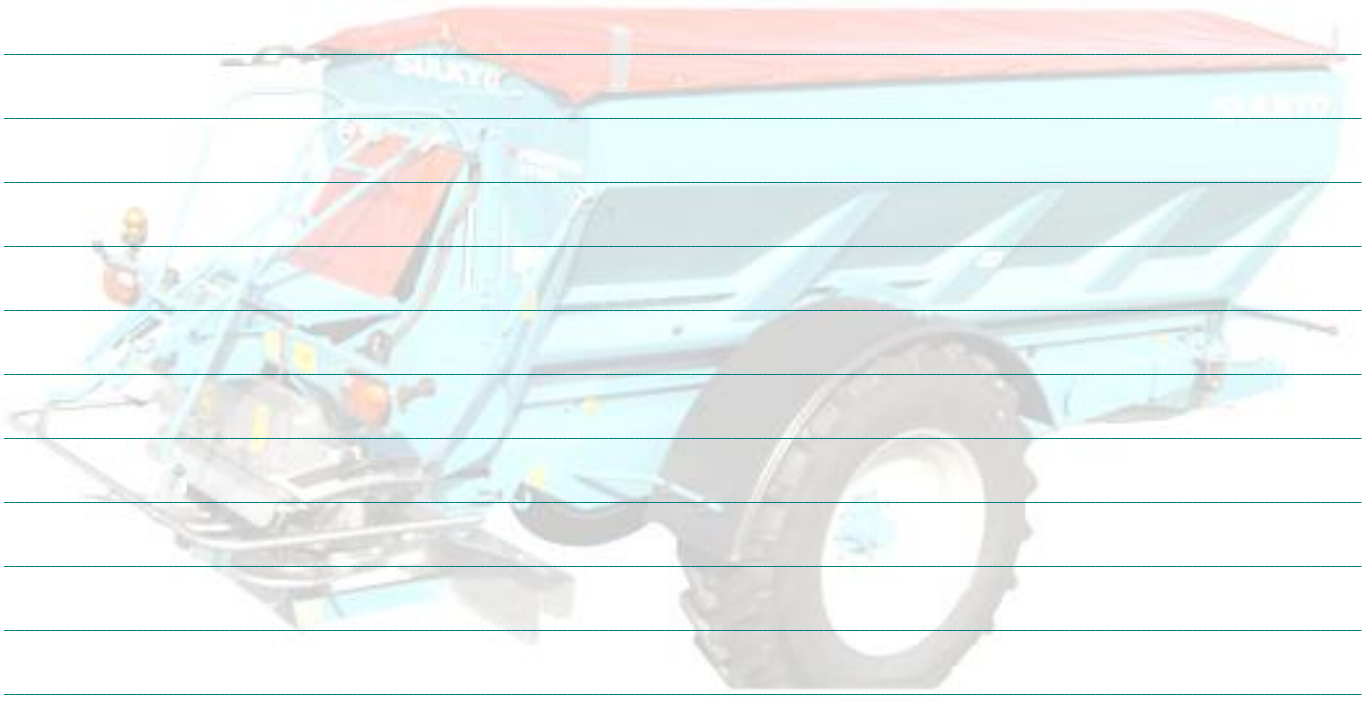


5- WEIGHING PROBLEM



6- RATE DIFFERENCE





NOTES