

Troubleshooting

The feeder motor is running but the auger or pintle chain is not moving.

Possible Cause	Corrective Action
1. The drive system is not connected to the gearbox. 2. The key has fallen out of the coupling.	1. Replace the coupling and/or the gearbox. 2. Replace the coupling and key.

The controller display has no power or is not turning on.

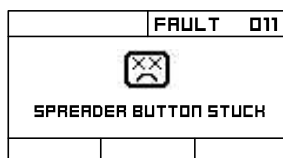
Possible Cause	Corrective Action
1. The controller is in Sleep mode. 2. The vehicle key is in the OFF position. 3. The fuse, battery, ground, or ignition switch connection is loose or corroded. 4. The in-line fuse is not functioning. 5. The controller is not plugged into the vehicle harness. 6. The controller has a internal failure.	1. Press the upper left button on the display to wake it up. 2. Start the vehicle or move the key to the ACCESSORY position. 3. Tighten or clean the connection. 4. Replace the fuse. 5. Plug-in the controller. 6. Replace the controller.

Communication Error (Fault 010)



Possible Cause	Corrective Action
1. The power/ground cable is not connected to the battery. 2. The 150 A fuse is not functioning. 3. The power/ground/control cable is not connected to the spreader. 4. The power/ground cable is not connected to the module. 5. The 4-pin controller connector or 35-pin header are not connected to the spreader. 6. The module is not functioning.	1. Connect the power/ground cable to the battery. 2. Replace the fuse. 3. Clean the power/ground/control connector pins at the bumper, check continuity on all of the wires, and connect to the spreader. 4. Connect the power/ground cable to the module. 5. Clean the connectors, check the continuity of the green, yellow, and black/red wires, and connect to the module. 6. Replace the module.

Spreader Button Stuck Error (Fault 011)



Possible Cause	Corrective Action
1. The dump/work light switch is stuck or faulty. 2. The strobe-light switch is stuck or faulty.	1. Replace the dump/work light switch. 2. Replace the strobe-light switch.

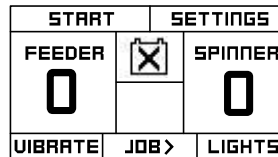
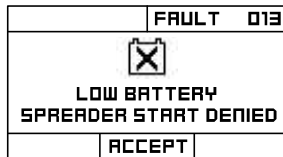
Display Button Stuck Error (Fault 012)



Possible Cause	Corrective Action
1. A button on the in-cab display controller is stuck or faulty.	1. Replace the controller.

Low Voltage Error (Fault 013)

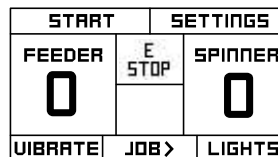
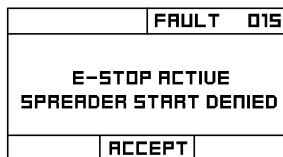
The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.



Possible Cause	Corrective Action
1. The battery is low. 2. The alternator is not functioning.	1. Charge the battery. 2. Replace the alternator.

Emergency Stop Active (Fault 015)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.




Possible Cause	Corrective Action
1. The emergency stop switch is being set to the STOP position. 2. The emergency stop switch is disconnected. 3. The emergency stop switch is faulty.	1. Ensure bystanders and obstructions are clear. Set the emergency stop switch to the RUN position. 2. Connect the emergency stop switch. 3. Replace the emergency stop switch.

Feeder Overheat Error (Fault 018)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.

FAULT 018	
FEEDER OVERHEAT WAIT FOR COOLDOWN	
ACCEPT	


START		SETTINGS	
FEEDER		SPINNER	
		0	
VIBRATE	JOB >	LIGHTS	

Possible Cause	Corrective Action
<ol style="list-style-type: none"> The circuit board on the module is overheating. The module is faulty. 	<ol style="list-style-type: none"> Allow the controller to cool off then try again. Replace the module.

Spinner Overheat Error (Fault 019)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.

FAULT 019	
SPINNER OVERHEAT WAIT FOR COOLDOWN	
ACCEPT	

START		SETTINGS	
FEEDER		SPINNER	
0			
VIBRATE	JOB >	LIGHTS	

Possible Cause	Corrective Action
<ol style="list-style-type: none"> The circuit board on the module is overheating. The module is faulty. 	<ol style="list-style-type: none"> Allow the controller to cool off, then try again. Replace the module.

Feeder Control Mode Error (Fault 020)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.

STOP	FAULT 020	
MATERIAL MISSING RATE CONTROL DENIED		
ACCEPT	CANCEL	

STOP			
FEEDER		SPINNER	
ERROR		0	
VIBRATE	BLAST	LIGHTS	

Possible Cause	Corrective Action
<ol style="list-style-type: none"> The module is not configured correctly. The module is faulty. 	<ol style="list-style-type: none"> Contact an Authorized Service Dealer. Replace the module.

Feeder Low Current Error (Fault 021)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.

STOP	FAULT 021
LOW FEEDER CURRENT	
ACCEPT	

STOP		
FEEDER		SPINNER
ERROR		0
VIBRATE	BLAST	LIGHTS

Possible Cause	Corrective Action
<ol style="list-style-type: none"> The feeder motor is not connected to the module. The feeder motor has a failed internal connection. The module is faulty. 	<ol style="list-style-type: none"> Connect the feeder motor to the module. Replace the feeder motor. Replace the module.

Feeder High Current Error (Advise 022, 023, 024, and 025)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.

STOP	ADVISE 02H
FEEDER JAM DETECTED ATTEMPTING AUTO-CLEAR	
ACCEPT	

STOP		
FEEDER		SPINNER
JAM CLEARING		0
VIBRATE	BLAST	LIGHTS

Possible Cause	Corrective Action
<ol style="list-style-type: none"> The module detected a high current on the feeder motor. The feeder drive system has excessive drag. 	<ol style="list-style-type: none"> The controller is attempting to clear itself. Allow the spreader to keep running to self-clear. Disconnect the spreader and inspect the feeder drive system for interference. Check the gearbox oil level and viscosity. Contact an Authorized Service Dealer for replacement parts.

Feeder Jam Error (Advise 026)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.

STOP	ADVISE 026
FEEDER JAM DETECTED ATTEMPTING AUTO-CLEAR	
ACCEPT	

STOP		
FEEDER		SPINNER
JAM CLEARING		0
VIBRATE	BLAST	LIGHTS

Possible Cause	Corrective Action
<ol style="list-style-type: none"> The module detected an obstacle that is preventing the feeder motor from turning. The feeder drive system has excessive drag. 	<ol style="list-style-type: none"> The controller is attempting to clear itself. Allow the spreader to keep running to self-clear. Disconnect the spreader and inspect the feeder drive system for interference. Check the gearbox oil level and viscosity. Contact an Authorized Service Dealer for replacement parts.

Feeder Jam Stuck Error (Fault 027)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.

STOP	FAULT 027
FEEDER JAM DETECTED COULD NOT CLEAR	
ACCEPT	

STOP		
FEEDER		SPINNER
JAM STUCK		0
VIBRATE	BLAST	LIGHTS

Possible Cause	Corrective Action
1. The auger or pintle chain is jammed and cannot clear.	1. Disconnect the power to the spreader and free the jam manually.

Feeder Lost Sensor Error (Fault 028)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.

STOP	FAULT 028
LOST FEEDER SENSOR RATE CONTROL DENIED	
ACCEPT CANCEL	

STOP		
FEEDER		SPINNER
ERROR		0
VIBRATE	BLAST	LIGHTS

Possible Cause	Corrective Action
<ol style="list-style-type: none"> The 4-pin feeder motor sensor cable is disconnected. The 4-pin feeder motor sensor cable has a poor connection. The 4-pin feeder motor sensor cable is damaged. 	<p>Accepting the fault will change the motor to the OPEN control mode. The material and job counters are disabled in OPEN control mode.</p> <ol style="list-style-type: none"> Connect the 4-pin feeder motor sensor cable. Clean the pins of the feeder motor sensor cable and then connect them. Replace the feeder motor sensor cable. Contact an Authorized Service Dealer for replacement parts.

Feeder Under Target Error (Advise 029)

STOP	ADVISE 029
FEEDER UNDER TARGET	
ACCEPT	

Possible Cause	Corrective Action
1. The module is not able to provide enough power to achieve the target flow rate.	<p>The spreader will continue to run, but it is not achieving the target flow rate. It is recommended that you turn the feeder setting down.</p> <ol style="list-style-type: none"> Calibrate the spreader flow rate. Retry the setting. If the advisory persists, contact your Authorized Service Dealer.

Spinner Control Mode Error (Fault 30)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.

STOP	FAULT 030
MATERIAL MISSING RATE CONTROL DENIED	
ACCEPT	CANCEL

STOP		
FEEDER		SPINNER
0		ERROR
VIBRATE	BLAST	LIGHTS

Possible Cause	Corrective Action
<ol style="list-style-type: none"> The module is not configured correctly. The module is faulty. 	<ol style="list-style-type: none"> Contact an Authorized Service Dealer. Replace the module.

Spinner Low Current Error (Fault 031)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.

STOP	FAULT 031
LOW SPINNER CURRENT	
ACCEPT	

STOP		
FEEDER		SPINNER
0		ERROR
VIBRATE	BLAST	LIGHTS

Possible Cause	Corrective Action
<ol style="list-style-type: none"> The spinner motor is not connected to the module. The spinner motor is not connected to the wire harness. The spinner motor has a failed internal connection. The module is faulty. 	<ol style="list-style-type: none"> Connect the spinner motor to the module. Connect the spinner motor wire harness. Replace the spinner motor. Replace the module.

Spinner High Current Error (Advise 032, 033, 034, and 035)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.

STOP	ADVISE 03H
SPINNER JAM DETECTED ATTEMPTING AUTO-CLEAR	
ACCEPT	

STOP		
FEEDER		SPINNER
0		JAM CLEARING
VIBRATE	BLAST	LIGHTS

Possible Cause	Corrective Action
<ol style="list-style-type: none"> The module detected a high current on the spinner motor. The spinner disk has excessive drag. 	<ol style="list-style-type: none"> The controller is attempting to clear itself. Allow the spreader to keep running to self-clear. Disconnect the spreader and inspect the spinner disk for interference. Contact an Authorized Service Dealer for replacement parts

Spinner Jam Error (Advise 036)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.

STOP	ADVISE 036
SPINNER JAM DETECTED ATTEMPTING AUTO-CLEAR	
ACCEPT	

STOP		
FEEDER		SPINNER
0		JAM CLEARING
VIBRATE	BLAST	LIGHTS

Possible Cause	Corrective Action
<ol style="list-style-type: none"> The module detected an obstacle that is preventing the spinner motor from turning. The spinner disk has excessive drag. 	<ol style="list-style-type: none"> The controller is attempting to clear itself. Allow the spreader to keep running to self-clear. Disconnect the spreader and inspect the spinner disk for interference. Contact an Authorized Service Dealer for replacement parts.

Spinner Jam Stuck Error (Fault 037)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.

STOP	ADVISE 037
SPINNER JAM DETECTED ATTEMPTING AUTO-CLEAR	
ACCEPT	

STOP		
FEEDER		SPINNER
0		JAM STUCK
VIBRATE	BLAST	LIGHTS

Possible Cause	Corrective Action
<ol style="list-style-type: none"> The spinner disk is jammed and cannot clear itself. 	<ol style="list-style-type: none"> Disconnect the power to the spreader and free the jam manually.

Spinner Lost Sensor Error (Fault 038)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.

STOP	FAULT 038
LOST SPINNER SENSOR RATE CONTROL DENIED	
ACCEPT	CANCEL

STOP		
FEEDER		SPINNER
0		ERROR
VIBRATE	BLAST	LIGHTS

Possible Cause	Corrective Action
<ol style="list-style-type: none"> The 4-pin spinner motor sensor cable is disconnected. The 4-pin spinner motor sensor cable has a poor connection. The 4-pin spinner motor sensor cable is damaged. 	<p>Accepting the fault will change the motor to the OPEN control mode. The material and job counters are disabled in OPEN control mode.</p> <ol style="list-style-type: none"> Connect the 4-pin spinner motor sensor cable. Clean the pins of the spinner motor sensor cable and then connect them. Replace the spinner motor sensor cable. Contact an Authorized Service Dealer for replacement parts.

Spinner Under Target Error (Advise 039)

STOP	ADVISE 039
SPINNER UNDER TARGET	
ACCEPT	

Possible Cause	Corrective Action
1. The module is not able to provide enough power to achieve the target spread rate.	The spreader will continue to run, but it is not achieving the target spread width. 1. Turn the feeder setting and/or spinner setting down and retry. If the advisory persists, contact your Authorized Service Dealer.

Left Side Vibrator Low Current Error (Advise 041)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.

STOP	ADVISE 041
LOW VIBE 1 CURRENT VIBRATOR 1 DENIED	
ACCEPT	

STOP		
FEEDER	VIB. ERROR	SPINNER
0	0	0
VIBRATE	BLAST	LIGHTS

Possible Cause	Corrective Action
1. The circuit between the module and the left side vibrator is open. 2. The vibrator has an internal failure.	1. Check for disconnected wires and connect them. 2. Replace the vibrator.

Left Side Vibrator High Current Error (Advise 042 and 043)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.

STOP	ADVISE 04H
HIGH VIBE 1 CURRENT VIBRATOR 1 DENIED	
ACCEPT	

STOP		
FEEDER	VIB. ERROR	SPINNER
0	0	0
VIBRATE	BLAST	LIGHTS

Possible Cause	Corrective Action
1. The mounting bolts for the left side vibrator are too tight or too loose. 2. There is a short in the wire harness. 3. The vibrator is not functioning.	1. Check the tightness of the vibrator mounting bolts. 2. Replace the vibrator wire harness. 3. Replace the vibrator.

Right Side Vibrator Low Current Error (Advise 051)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.

STOP	ADVISE 051
LOW VIBE 2 CURRENT VIBRATOR 2 DENIED	
ACCEPT	

STOP		
FEEDER	VIB. ERROR	SPINNER
0		0
VIBRATE	BLAST	LIGHTS

Possible Cause	Corrective Action
<ol style="list-style-type: none"> 1. The circuit between the module and the right side vibrator is open. 2. The vibrator has an internal failure. 	<ol style="list-style-type: none"> 1. Check for disconnected wires and connect them. 2. Replace the vibrator.

Right Side Vibrator High Current Error (Advise 052 and 053)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.

STOP	ADVISE 05H
HIGH VIBE 2 CURRENT VIBRATOR 2 DENIED	
ACCEPT	

STOP		
FEEDER	VIB. ERROR	SPINNER
0		0
VIBRATE	BLAST	LIGHTS

Possible Cause	Corrective Action
<ol style="list-style-type: none"> 1. The mounting bolts for the right side vibrator are too tight or too loose. 2. There is a short in the wire harness. 3. The vibrator is not functioning. 	<ol style="list-style-type: none"> 1. Check the tightness of the vibrator mounting bolts. 2. Replace the vibrator wire harness. 3. Replace the vibrator.

Brine Pump Low Current Error (Advise 061)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.

STOP	ADVISE 061
LOW WET CURRENT PRE WET DENIED	
ACCEPT	

STOP		
FEEDER	PRE WET ERROR	SPINNER
0		0
PRE-WET	BLAST	LIGHTS

Possible Cause	Corrective Action
<ol style="list-style-type: none"> 1. The circuit to the pump is open. 2. The pump has an internal failure. 	<ol style="list-style-type: none"> 1. Check for disconnected wires and connect them. 2. Replace the pump.

Brine Pump High Current Error (Advise 062 and 063)

The first screen below shows the initial error message that can be accepted, or it will time-out after 5 seconds. The second screen shows the error message on the main display screen.

STOP	ADVISE 06H
HIGH WET CURRENT PRE WET DENIED	
ACCEPT	

STOP		
FEEDER		SPINNER
0	PREWET ERROR	0
PRE-WET	BLAST	LIGHTS

Possible Cause	Corrective Action
<ol style="list-style-type: none"> 1. The maximum current for the pump has been exceeded. 2. The pump motor wiring has shorted. 3. The pump is not functioning. 	<ol style="list-style-type: none"> 1. Replace the pump. 2. Check for shorts in the wires and replace the pump if necessary. 3. Replace the pump.



T3: Spreader Module		VBX+ Fault Codes	
T4: In-Cab Display			
Boss Code	DIAG Code	Description	Fault/Advisory
01	P0001	Invalid Module Type	Fault
010	P000A	Communication Error	Fault
011	P000B	Spreader Button Stuck Error	Fault
012	P000C	Display Button Stuck Error	Fault
013	P000D	Low Voltage Error	Fault
015	P000F	Emergency Stop Active	Fault
018	P0012	Feeder Overheat Error	Fault
019	P0013	Spinner Overheat Error	Fault
020	P0014	Feeder Control Mode Error	Fault
021	P0015	Feeder Low Current Error	Fault
022	P0016	Feeder High Current Error	Advisory
023	P0017	Feeder High Current Error	Advisory
024	P0018	Feeder High Current Error	Advisory
025	P0019	Feeder High Current Error	Advisory
026	P001A	Feeder Jam Error	Advisory
027	P001B	Feeder Jam Stuck Error	Fault
028	P001C	Feeder Lost Sensor Error	Fault
029	P001D	Feeder Under Target Error	Advisory
030	P001E	Spinner Control Mode Error	Fault
031	P001F	Spinner Low Current Error	Fault
032	P0020	Spinner High Current Error	Advisory
033	P0021	Spinner High Current Error	Advisory
034	P0022	Spinner High Current Error	Advisory
035	P0023	Spinner High Current Error	Advisory
036	P0024	Spinner Jam Error	Advisory
037	P0025	Spinner Jam Stuck Error	Fault
038	P0026	Spinner Lost Sensor Error	Fault
039	P0027	Spinner Under Target Error	Advisory
041	P0029	Left Vibrator Low Current Error	Advisory
042	P002A	Left Vibrator High Current Error	Advisory
043	P002B	Left Vibrator High Current Error	Advisory
051	P0033	Right Vibrator Low Current Error	Advisory
052	P0034	Right Vibrator High Current Error	Advisory
053	P0035	Right Vibrator High Current Error	Advisory
061	P003D	Wet Low Current Error	Advisory
062	P003E	Wet High Current Error	Advisory
063	P003F	Wet High Current Error	Advisory