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SSL HANDHELD CONTROLLER

Diagnostic Mode

Diagnostic Mode helps identify hardware/electrical problems in the plow system. It checks the solenoids and lights, then displays error codes on the handheld control and electronic modules for easy troubleshooting.

Entering Diagnostic Mode

1. Turn the controller **OFF**.
2. Press and hold the **UP** button only.
3. While holding **UP**, turn the controller **ON**.
4. Release the **UP** button.

Diagnostic Mode Functionality:

- Each plow light turns on and off individually in a repeating cycle.
- Only basic plow movements work.
- If the modules cannot communicate, the **red light** blinks a communication error code on controller. Other errors cannot be displayed until communication is restored.
- Plow output errors are shown by the **green light**.
- The control can display up to **three error codes** in a repeating cycle.
- If there are more than three errors, additional codes appear only after one of the first three errors is fixed.
- After fixing the error code, turn OFF and ON the truck ignition in order to restore **Open-circuit errors** and **Short-circuit errors**.

Interpreting Error Codes

- Error codes are displayed as a series of blinks.
- **Long blinks** show the tens digit.
- **Short blinks** show the ones digit.
- Example: Code **42** = 4 long blinks followed by 2 short blinks.
- A long pause separates each error code.
- After the last code, the sequence repeats from the beginning. If there are no errors, the indicator light stays on continuously.

Error Codes:

Below is a list of the codes that may be displayed from the system. Please use this as a reference when troubleshooting.

General Errors:

- 1.No Comms Detected
- 2.No Lights Comms
- 3.No Plow Comms
- 4.No Control Control

Truck-Side Short Circuits:

11. AUX 1 Short
12. AUX 2 Short
13. Brown Pump Wire

Plow-Side Short Circuits:

- 14.Left High Beam (Plow Light)
- 15.Right High Beam (Plow Light)
- 16.Left Low Beam (Plow Light)
- 17.Right Low Beam (Plow Light)
- 18.Left Turn Signal (Plow Light)
- 19.Right Turn Signal (Plow Light)
- 21.Left Running Light (Plow Light)
- 22.Right Running Light (Plow Light)
- 23.Blue Wire (Power Unit)
- 24.Orange Wire (Power Unit)
- 25.Violet Wire (Power Unit)
- 26.Red Wire (Power Unit)
- 27.Green Wire (Power Unit)
- 28.Grey Wire (Power Unit)
- 29.White/Black Wire (Power Unit)
- 31.Yellow Wire (Power Unit)
- 32.Pink Jack Wire (Power Unit)
- 33.Blue Jack Wire (Power Unit)
- 34.Green/White Wire (Power Unit)
- 35.Violet/White Wire (Power Unit)
- 36.Brown Wire (Power Unit)

Truck-Side Open Circuits:

- 37.Brown Pump Wire

Plow-Side Open Circuits:

- 38.Blue Wire (Power Unit)
- 39.Orange Wire (Power Unit)
- 41.Violet Wire (Power Unit)
- 42.Red Wire (Power Unit)
- 43.Green Wire (Power Unit)
- 44.Grey Wire (Power Unit)
- 45.White/Black Wire (Power Unit)
- 46.Yellow Wire (Power Unit)
- 47.Green/White Wire (Power Unit)
- 48.Violet/White Wire (Power Unit)
- 49.Brown Wire (Power Unit)

SSL JOYSTICK

Diagnostic Mode

Diagnostic Mode helps identify hardware/electrical problems in the plow system. It checks the solenoids and lights, then displays error codes on the handheld control and electronic modules for easy troubleshooting.

Entering Diagnostic Mode

1. Turn the controller **OFF**.
2. Move handle to SCOOP, turn the controller **ON**.
3. Release the **handle** button.

Diagnostic Mode Functionality:

- Each plow light turns on and off individually in a repeating cycle.
- Only basic plow movements work.
- If the modules cannot communicate, the **red light** blinks a communication error code on controller. Other errors cannot be displayed until communication is restored.
- Plow output errors are shown by the **green light**.
- The control can display up to **three error codes** in a repeating cycle.
- If there are more than three errors, additional codes appear only after one of the first three errors is fixed.
- After fixing the error code, turn OFF and ON the truck ignition in order to restore **Open-circuit errors** and **Short-circuit errors**.

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11. AUX 1 Short
12. AUX 2 Short
13. Brown Pump Wire

Plow-Side Short Circuits:

- 14.Left High Beam (Plow Light)
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Truck-Side Open Circuits:

- 37.Brown Pump Wire

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