

# Trouble?

- ⊙ If your machine doesn't function properly there should be an error number shown on the control panel display. Please see the error number list below along with some helpful hints to get your machine up and running again. If you are unable to get your machine running again after checking the advice below, please contact your local Sankosha distributor or Sankosha USA, Inc's office.



## WARNING

When working around electrical components such as the electrical box and inverter care should be taken. When working in the opened electrical box or inverter box do not touch any unnecessary areas. Touch only the areas as instructed.



## CAUTION

If you have any of the following error messages: "EEE", "EE1", "EE2", "EE3", "EE4", "EE5" please turn off the machine and wait for 5 seconds and turn the machine back on. If the error persists, please contact your local Sankosha distributor or Sankosha USA, Inc.

Error No.	1. Error Item
	2. Error Description
	3. Check Point
<b>E1</b>	1. Emergency Stop Button
	2. Emergency Stop Button is being pressed.
	3. (1) Release the Emergency Stop Button by turning the Button clockwise (to the "→" direction). Display shows "- - 1". Press the Reset Button. (2) Wiring may be the cause if E1 displays even after releasing it. Check the Button itself or check for a possible short circuit in the wire.
<b>E2</b>	1. Left Safety Bar
	2. Left Safety Bar Switch is being pressed.
	3. (1) If you hold the safety guard, error is released when you remove your hand away from it. ("- - 2" shows up on the display window) Make sure the Switch is being pressed due to a hitch of the Safety Guard. (2) The switch may be out of order if E2 displays even though you don't hold it. Check the Switch itself or check wire (short circuit)
<b>E3</b>	1. Right Safety Bar
	2. Right Safety Bar Switch is being pressed.
	3. (1) If you hold the safety guard, error is released when you remove your hand away from it. ("- - 3" shows up on the display window) Make sure the Switch is being pressed due to a hitch of the Safety Guard. (2) The switch may be out of order if E3 displays even though you don't hold it. Check the Switch itself or check wire (short circuit)
<b>E10</b>	1. Reset Button Error
	2. Reset Button remains ON for more than 15 seconds.
	3. (1) Check if the Button is being pressed. (2) Check the Button itself or if there could be a short circuit in the wire.
<b>E11</b>	1. Left Start Button Error
	2. Left Start Button remains ON for more than 15 seconds.
	3. (1) Check if the Button is being pressed. (2) Check the Button itself or if there could be a short circuit in the wire.

Error No.	1. Error Item
	2. Error Description
	3. Check Point
<b>E12</b>	1. Right Start Button Error
	2. Right Start Button remains ON for more than 15 seconds.
	3. (1) Check if the Button is being pressed. (2) Check the Button itself or if there could be a short circuit in the wire.
<b>E13</b>	1. Left Vacuum Pedal Error
	2. Blower Pedal remains ON for more than 3minutes.
	3. (1) Check if the Pedal is being pressed. (2) Check the Button itself or if there could be a short circuit in the wire.
<b>E14</b>	1. Blower Pedal Error
	2. Blower Pedal remains ON for more than 3minutes.
	3. (1) Check if the Pedal is being pressed. (2) Check the Button itself or if there could be a short circuit in the wire.
<b>E15</b>	1. Steam Pedal Error
	2. Steam Pedal remains ON for more than 3 minutes.
	3. (1) Check if the Pedal is being pressed. (2) Check the switch itself or if there could be a short circuit in the wire.
<b>E16</b>	1. Right Vacuum Pedal Error (Option)
	2. Right Vacuum Pedal remains ON more than 3minutes.
	3. (1) Check if the Pedal is being pressed. (2) Check the switch itself or if there could be a short circuit in the wire.
<b>E17</b>	1. Middle press closing position sensor error
	2. No input detected by the middle press closing position sensor after the specified 3+ seconds.
	3. Check the cylinder sensor. - Activate "Input test 1" on the service menu. - Bring a magnet to the sensor. If the red LED on the sensor does not light, or "S2" does not appear in the display window, the cylinder sensor does not work properly. Check the position, failure or disconnection. In case "S2" appears in the display window, there is a middle press cylinder malfunction. Check if air pressure is at the specified 87 psi (0.6MPa).
<b>E18</b>	1. Upper press end sensor error
	2. No input detected by the upper press closing position sensor after the specified 3+ seconds
	3. Check the cylinder sensor. - Activate "Input test 1" on the service menu. - Bring a magnet to the sensor. If the red LED on the sensor does not light, or "S3" does not appear in the display window, the cylinder sensor does not work properly. Check the sensor position, failure or disconnection. In case "S3" appears in the display window there is an upper press cylinder malfunction. Check if air pressure is at the specified 87 psi (0.6MPa).
<b>E19</b>	1. Pressure cylinder return sensor error
	2. (1) No input detected on the pressure cylinder return sensor after turning the power on. (2) No changes on input in pressure start/release of pressure cylinder sensor.
	3. Check the cylinder sensor. - Activate "Input test 1" on the service menu. - Bring a magnet to the sensor. If the red LED on the sensor does not light, or "S4" does not appear in the display window, the cylinder sensor does not work properly. Check the sensor position, failure or disconnection. In case "S4" appears in the display window there is a pressure cylinder or pressure release solenoid valve malfunction. Check if air pressure is at specified 0.5MPa or the solenoid valve works properly. .

Error No.	1. Error Item
	2. Error Description
	3. Check Point
<b>E20</b>	1. Pressure cylinders end sensor error
	2. No input detected by the pressure cylinder end sensor after the specified 3+ seconds
	3. Check the cylinder sensor. - Activate "Input test 1" on the service menu. - Bring a magnet to the sensor. If the red LED on the sensor does not light, or "S5" does not appear in the display window, the cylinder sensor does not work properly. Check the sensor position, failure or disconnection. In case "S5" appears in the display window there is a pressure cylinder malfunction. Check if the air pressure is at the specified 72.5 psi (0.5MPa).
<b>E21</b>	1. Inverter error
	2. Inverter irregularities.
	3. If the machine stopped due to an inverter error, turn the power off till the inside of the inverter gets cool, then turn it back on. If you turn it on before the inverter gets cool, the machine may stop again. If the inverter does not work despite the above please contact your local Sankosha dealer or Sankosha USA, Inc.
<b>E22</b>	1. Middle press closing time error (too fast)
	2. Middle press closing speed is too fast.
	3. Check air pressure and the press closing speed and adjust accordingly.
<b>E23</b>	1. Upper press closing time error (too fast)
	2. Upper press closing speed is too fast.
	3. Check air pressure and the press closing speed and adjust accordingly.
<b>E24</b>	1. Pressure cylinder closing time error (too fast)
	2. Upper press closing speed is too fast in releasing pressure.
	3. Check air pressure and the upper press closing speed and adjust accordingly.
<b>E25</b>	1. Pressure cylinder opening time error (too fast)
	2. Upper press opening speed is too fast in releasing pressure.
	3. Check air pressure and the press opening speed and adjust accordingly.
<b>E30</b>	1. Steam timer button error
	2. Steam timer button is being constantly activated.
	3. Steam timer button or the display circuit board may have failed. Check both of them.
<b>E31</b>	1. Test button error
	2. Test button is being constantly activated.
	3. Test button may or the display circuit board may have failed. Check both of them.
<b>E32</b>	1. Press timer button error
	2. Press timer button is being constantly activated.
	3. Press timer button or the display circuit board may have failed. Check both of them.

Error No.	1. Error Item
	2. Error Description
	3. Check Point
<b>E33</b>	1. Hard/soft press button error.
	2. Hard/soft press button is being constantly activated.
	3. The button or display circuit board may have failed. Check both of them.
<b>E34</b>	1. Blower timer button errors
	2. Blower timer button is being constantly activated.
	3. The button or display circuit board may have failed. Check both of them.
<b>E35</b>	1. Counters clear/Enter button error
	2. Counters clear/Enter button is being constantly activated.
	3. The button or display circuit board may have failed. Check both of them.
<b>E90</b>	1. Software internal errors
	2. Errors occurred within the program.
	3. Turn the power off and on again. In case it happens repeatedly, contact your local Sankosha distributor or Sankosha USA, Inc.
<b>E98</b>	1. Display board external input error
	2. The safety bar was tripped by rough movement of the machine.
	3. (1) Confirm that the connection is good at the display circuit board. (2) Confirm that the circuit board is clean. Clean with compressed air. (3) If neither steps (1),(2) above are not successful, it may be necessary to replace the circuit board.
<b>E99</b>	1. DC 24V error
	2. Either safety bar operated in an instant in the vibration and so on.
	3. The error will be released when you press the reset button. When occurring repeatedly, adjust the speed controller at the site of the impact.